Digitized by the Internet Archive
in 2024

https://archive.org/details/microbiology-abstracts-section-c_1972_1_index

ed and published by
ation Retrieval Limited
nberg Court
W1V 5FG England

# Microbiology Abstracts

## Section C
## Algology, Mycology & Protozoology

Subject and Species
to Volume 1

PAMPHLET BOX

U. of [illegible] LIBRARY

[illegible]

rmation Retrieval publication

**Copies of abstracted material**

Due to copyright restrictions the publishers cannot supply copies of material from which the abstracts are prepared. However, provided the necessary copyright declarations are made, copies will normally be obtainable from your local library. In case of difficulty, the publishers will be pleased to give any assistance they can.

**Information Retrieval publications**
*Abstract journals*
Amino-acid, Peptide & Protein Abstrac
Animal Behaviour Abstracts
Aquatic Sciences & Fisheries Abstracts
Biological Membrane Abstracts
Calcified Tissue Abstracts
Carbohydrate Chemistry & Metabolism
Chemoreception Abstracts
Entomology Abstracts
Genetics Abstracts
Microbiology Abstracts (published in 3
Nucleic Acid Abstracts
Virology Abstracts
*Periodical*
Nucleic Acids Research

---

# Preface

Microbiology Abstracts Section C (algology, mycology and protozoology) commenced publication in January 1972. It is published monthly, each issue comprising about 700 abstracts. Abstracts are presented in numerical sequence under 46 headings and sub-headings. When relevant to more than one section the abstracts are cross-referred to every other relevant section. Each issue contains a full species index and author index.

Titles are given in English for all papers; titles of papers in the European languages, excluding those using the Cyrillic alphabets, are also given in the original language; for other languages only the English translation is given. This is followed by all authors and the address of the first author. Full bibliographic details of the source journal are cited, the journal titles being abbreviated in accordance with the procedure laid down by the American National Standards Institute Committee Z39.

Editorial policy of IRL is to present informative abstracts in 150 to 300 words, except in the case of a very long review when an indicative abstract is provided. When an informative author's summary is given in the same journal which meets IRL editorial criteria, this is cited in preference to writing a new abstract; this policy follows the recent recommendations of the American National Standards Institute Sub-Committee no.6 of Committee Z39.

In the text of the abstracts, scientific ter
frequent use are abbreviated and at the
of each abstract the language(s) of the
article and its summaries are indicated i
abbreviated form. A full list of permitted
abbreviations will be found on the insid
back cover.

A study of the table of contents will sho
the full scope of Microbiology Abstract
Section C, which completes IRL's cove
of Microbiology. Every paper citing non
industrial aspects of the Algae, Fungi ar
Protozoa, including micro- and macros
species, is included. Within each sectio
abstracts are arranged taxonomically in
the order: **algae, fungi, lichens, prot**

A multi-disciplinary monitoring list of 3
journals is scanned every month by IRL
editorial staff. This ensures that not onl
primary literature of the subject is scanr
but also coverage is given of related
disciplines.

At the completion of each annual volum
comprehensive index is compiled, in wl
each abstract is indexed by an average
four subject entries. In addition comput
generated annual author and annual
species indexes are published.

ompiled and published by
nformation Retrieval Limited
Falconberg Court
ondon W1V 5FG England

nnual Subject and Species Indexes
o Volume 1

# Microbiology Abstracts

## Section C Algology, mycology & protozoology

Editor in chief E.S.Krudy
Editor Mary Murphy
*Editorial advisers*
J.D.Dodge, University of London
J. R. Baker, University of Cambridge

157

153

## Subscription rates

Annual subscription
Europe £40.00
Western Hemisphere
US $175.00 airmail/freight
Elsewhere
£62.50 airmail

Combined subscription rate
for simultaneous purchase
of Sections A, B and C

Annual subscription
Europe £120.00
Western Hemisphere
US $475.00 airmail/freight
Elsewhere
£162.50 airmail

---

© 1974 Information Retrieval Ltd
1 Falconberg Court
London W1V 5FG England

All rights reserved by the publisher.
No part of this book may be reproduced or transmitted in any form by any means, electronic or mechanical, including photocopying, recording or any information storage and retrieval system, without permission in writing from the publisher.

Published monthly
Second-class postage paid at
Jamaica, N.Y.11431

Compiled and printed in England

# Subject index

# A

**Aalenian (upper),** of the southern Jura, Planiinvoluta carinata in. 4049
**Abaco Island,** preliminary study of fresh water fungi from. 3264
**Abdomen (intra),** calcifications of in South American blastomycosis. 2882
**Abdominal symptoms,** occurrence of Giardia lamblia in adult patients with. 1637
**Abelmoschus esculentus,** studies on charcoal rot disease of. 6970
**Abnaki,** as high-yielding potato var resistant to verticillium wilt and leaf roll. 1784
**Abortion,**
  in a cow, caused by Aspergillus. 462
  in sheep, caused by Aspergillus fumigatus. 3693
  in sheep, caused by toxoplasmosis, trial of killed vaccine in prevention of. 2219
  streptococcus and candida septicaemia after. 2885
  toxoplasmosis and. 3682
  toxoplasmosis causing. 459
**Abortion (habitual),** relation to toxoplasmosis. 2934
**Abortion (mycotic),** perspective on. 5658
**Abscess (acute amoebic liver),** treatment of with metronidazole. 2924
**Abscess (amoebic liver),** 6842
  Budd-Chiari syndrome caused by. 2923
  cholestasis in patients with. 2916
  clinical aspects of in children. 3670
  diagnosis and treatment of rupture of into the pericardium. 6836
  in Korea, 200 patients with. 5643
  non-tropical case of. 6839
  period of scintigraphic resolution of. 2922
  peritonitis from. 6278
  presenting a space occupying lesion of the right kidney. 2915
  proctocolitis with in a neonate. 4480
  progress in liver scanning in the study of. 2800
  in situs invertus. 4477
**Abscess (Candida albicans),** of retina. 5619
**Abscisic acid,** interaction of fusicoccin with. 6642
**Abscisic acid-like activity,** of trisporic acids. 2035
**Absorption,** in Sphaerobolus. 2050
**Abundance (species),** method for estimating correlation between. 3558
**Acanthaster planci,** larvae of, development of and feeding on unicellular algae. 1175
**Acer,** effect of cuticular waxes of on the infection rate of pathogenic fungi. 6665
**Acetaldehyde,**
  production by Trichoderma viride. 265
  transient activation of soil microorganisms by. 3474
**Acetaldehyde (2, 2-bis-p-chlorphenyl),** significance of in breakdown of DDT by moulds. 1421
**Acetaldehyde consuming yeasts,** effect of irradiation on. 4282
**Acetate,**
  comparative action with ethanol on the oxidative degradation of glucose by baker's yeast. 2661
  effect on glucose uptake in hexokinase activity in Euglena gracilis. 374
  endogenous metabolism of Saccharomyces cerevisiae in relation to. 2563
  regulation of photosynthesis in Chlorogonium elongatum under the influence of. 2038
  in Scenedesmus quadricauda, pathway of assimilation of. 1449
  stimulation of growth and rhizomorph formation in Armillaria mellea by. 5889
**Acetate metabolism,** by Pandorina morum. 2041
**Acetic acid,**
  effect of ruminal infusion of on the concentrations of ciliate protozoa. 4865
  metabolism of in yeast during sporulation. 1276
**Acetic acid (indolyl-3),** microbiological hydroxylation of. 3425
**Acetic acid metabolism,** of yeast, influence of culture conditions on. 5543
**Acetic orcein staining,** studies of somatic nuclear division in Ustilago violacea sporidia by. 6507
**N-Acetyl-L-alanine,** formation from glucose by Candida tropicalis. 209
**2-Acetyl amino-5-nitrothiazole,** effect of cupric sulphate on the prophylactic efficacy of against histomoniasis in turkeys. 4504
**Acetyl choline,** photomimetic effect on morphogenesis in Trichoderma. 308
**N-Acetyl glucosamine (tritiated),** incorporation of into Choenephora cucurbitarum infected with Piptocephalis virginiana. 4535
**N-Acetyl glucosamine and N-acetyl glucosaminuronic acid,** of black yeast, as components of extracellular polysaccharide. 819
**β-N-Acetyl glucosaminidase,** in mushrooms, distribution of. 4107
**N-Acetyl glycine,** formation from glucose by Candida tropicalis. 209
**Acetyl groups,** combined with sulphydryl groups in yeast alcohol dehydrogenase, behaviour of. 2638
**Acetyl laurefucin,** from Laurencia nipponica. 3408
**N-Acetyl muramidase,** from a Limax amoeba, action on the murein of Proteus mirabilis. 188
**Acetyl phosphate,** adaptive biosynthesis of thiazole and by-passing of the thiazole requirement in Exobasidium by. 6037

**Acetylation,**
- preparation of the acetyl alginic acid from Cystoseira barbata and evaluation of. 5431
- of sulphydryl groups in yeast alcohol dehydrogenase. 2637

**Acetylene reduction technique,** assessment of non-symbiotic nitrogen fixation in Nigerian soils by. 3801

**Acid (acrylic),** from Phaeocystis poucheti, production of. 3357

**Acid (alginic),** in Cystoseira stricta, analysis of. 3358

**Acid (cyclic hydroxamic),** role of in monogenic resistance of maize to Helminthosporium turcicum. 2368

**Acid (diffusible),** effect on potassium uptake by yeast. 1496

**Acid (keto),** liberation of by Chlorella pyrenoidosa during growth and cell division. 3345

**Acid (organic),** effect on growth of Candida spp in hydrocarbon containing media. 887

**Acid (steam-volatile),** from Chlorococcum ellipsoideum and Chlamydomonas globosa. 5940

**Acid activity,** of Aspergillus spp isolated from soils at different above sea-level altitudes. 2051

**Acid phosphatase,**
- from Fusarium graminearum. 177
- in Physarum polycephalum, activity during spherulation induced by mannitol. 1391

**Acne,**
- complications of tetracycline therapy for. 6257
- treatment of. 1697

**Acridine,**
- induction of paracrystalline inclusion in Neurospora crassa with. 3153
- inhibited incorporation of AMP-8-$^3$H into nucleic acids of erythrocyte-free malarial parasites by. 4863

**Acridine bases,** interaction between red seaweed mucilage and. 4205

**Acridine derivatives,** effect on Trypanosoma evansi in rats. 2094

**Acriflavine,**
- action of on growth and mutation in yeast. 4284
- sensitivity of Blastocladiella emersonii spores to. 906
- sensitivity of Saccharomyces cerevisiae in various phases of the life cycle to induction by. 6122

**Acriflavine-induced changes,** in soluble enzyme levels of Crithidia fasciculata. 4860

**Acriflavine-induced dyskinetoplasty,** in Trypanosoma brucei, retention of kinetoplast DNA in. 1926

**Acriflavine resistance,** in Leishmania tarentolae. 6687

**Acrylic plastic,** and Jena glass bottles used in measuring phytoplanktonic primary production by the $^{14}$C method. 7438

**Acyrthosiphon pisum,** discharge of Entomophthora thaxteriana conidia from. 3209

**ACTH deficiency,** with familial moniliasis and defective delayed hypersensitivity. 7544

**Actidione,**
- effect on the macronuclear development in Stylonychia notophora. 2748
- effect on rhythmic mycelial growth in Podospora anserina. 625
- effect on Sclerotium cepivorum causing white rot of onion. 1552

**Actidione-treated yeast cells,** uptake of amino acids by. 2143, 6093, 6094

**F-Actin,** in Physarum polycephalum, identification of by in situ binding of heavy meromyosin. 2449

**Actin (muscle and myxomycete plasmodium),** quaternary structure of. 792

**Actin (nuclear protein like),** of Physarum polycephalum, synthesis and properties of. 793

**Actinic reticuloid,** treatment of. 1697

**Actinomycetes,**
- antagonism by to fungal root pathogens in Australian soils. 2397
- effect of nitrogen source on metabolic compatability of yeasts and. 3461
- immunological relationships of Candida albicans and its transformants to. 6769
- occurrence of in coastal soils of southwestern British Columbia and San Juan Islands. 4629
- from tobacco, antifungal spectra of. 4888

**Actinomycin,** sensitivity of Blastocladiella emersonii spores to. 906

**Actinomycin D,**
- and the central granules in the nuclear pore complex. 4353
- sensitization action on amoebas before $\gamma$-irradiation. 903
- temperature-dependent effect on RNA synthesis during synchronous development in Neurospora crassa. 2096

**Actinomycosis,** of the transverse mesocolon. 1028

**Action potential,** of Nitella flexilis, effect of low energy X-rays on. 6118

**Activated sludge,**
- growth rate of Aspidiscidae isolated from. 4710
- re-assessment of relative importance of Ciliates, Rhizopods and Rotarians in ecology of. 694

**Activated sludge (phenol- and catechol-adapted),** characteristics of yeasts isolated from. 960

**Activated sludge process,** computer simulations of microbial population dynamics in. 4056

**Acyrthosiphon pisum,** entomophthorosis epizootics in. 4493

**Adaptability,** of host of Phytophthora palmivora. 497

**Addicts (heroin),** osteomyelitis in. 2239

**Addiction,** infections as fatal complications of. 6281

- **Addiction (drug),** fungal endocarditis secondary to. 6259
- **Addison's disease,** with candidiasis and hypoparathyroidism, case report of. 7538
- **Adenine,**
  - in Candida guilliermondii, transformation of. 2653
  - effect on the photodynamic inactivation of yeast alcohol dehydrogenase in the presence of riboflavin. 2735
  - utilization and deamination by Penicillium chrysogenum. 2149
- **Adenine (8-aza),** genes conferring resistance to in Neurospora crassa. 2828
- **Adenine (N-6-substituted),** enzymatic degradation of in Schizosaccharomyces pombe. 7235
- **Adenine-independence,** in Saccharomyces cerevisiae radio-sensitive strs, spontaneous reversion towards. 968
- **Adenine mutant (purple),**
  - in Neurospora crassa, genetic characterization of. 6760
  - in Neurospora crassa, studies with. 2160
- **Adenineless mutant (pink),** of Schizophyllum commune, dominance and non complementation among involving 2 discrete genes. 2178
- **Adenosine,** cardiopulmonary effects of. 4526
- **Adenosine (deoxy),**
  - effect on dimorphism in Verticillium alboatrum. 2760
  - induction of synchrony in Schizosaccharomyces pombe with. 351
- **Adenosine diphosphate,** of Schizophyllum commune mutant B str mitochondria, lowered respiratory response to. 5473
- **Adenosine monophosphate (cyclic),**
  - control of aggregation by Dictyostelium discoideum by an external periodic pulse of. 2773
  - extracellular concentrations of during axenic growth of Dictyostelium discoideum. 3960
  - transformation of trophic Hartmannella culbertsoni into viable cysts by. 4861
- **Adenosine monophosphate inhibited protein kinase,** from Physarum polycephalum. 1975
- **Adenosine phosphates,** in Aspergillus niger growth cycle, changes in intracellular concentrations of. 143
- **Adenosine triphosphatase,**
  - preparation of alga cell-walls with high activity of. 723
  - of Saccharomyces carlsbergensis. 165
  - staining of dermatophytes. 357
- **Adenosine triphosphatase (Mg$^{2+}$-dependent),** in isolated Euglena chloroplasts, light activation of. 4089
- **Adenosine triphosphatase (purified mitochondrial),** from Saccharomyces cerevisiae, correlation between oligomycin-sensitivity and ergosterol in. 5992
- **Adenosine triphosphatase properties,** of Strigomonas oncopelti flagella, studies of. 4125
- **Adenosine triphosphate,**
  - in Anabaena variabilis, activation of pyruvate-ferredoxin oxidoreductase by. 151
  - in Chlorella fusca, transient induced oscillations in the level of. 4845
- **Adenosine triphosphate: polyphosphatephosphotransferase,** of fungi and bacteria, synthesis of polyphosphate by. 1395
- **Adenosine triphosphate pool (intracellular),** of Saccharomyces cerevisiae, response of to growth inhibition by excess L-methionine. 7368
- **Adenosine triphosphate-sensitive Ca$^{2+}$-pumping system,** in amoebae, demonstration of. 7343
- **Adenosine triphosphate sulphurylase,** from Penicillium chrysogenum, physical kinetic and regulatory properties. 762
- **Adenosine triphosphate: urea amidolyase,** in Saccharomyces cerevisiae, urea carboxylase and allophanate hydrolase as components of. 4777
- **S-Adenosylmethionine,** in Saccharomyces cerevisiae, transport of. 3350
- **S-[methyl-$^{14}$C]Adenosylmethionine,** incorporation of into Anabaena variabilis. 6073
- **S-Adenosylmethionine/S-adenosylhomocysteine,** characteristics of inhibition of sai-1 mutation in Saccharomyces cerevisiae by. 6202
- **Adherence,** of Plasmodium berghei, by rat macrophages in vitro. 4862
- **Adhesiveness (cellular),** changes in during development of Dictyostelium discoideum. 5881
- **Adiaspiromycosis,**
  - development of the agent of into adiaspores in mouse lung. 4707
  - distribution of in small mammals of Czechoslovakia. 4400
  - and Emmonsia crescens. 2893
  - spread of in Bulgaria. 3603
- **Adiaspiromycosis (pulmonary),** in man caused by Emmonsia crescens. 1690
- **Adiaspore,** development of Emmonsia crescens into in the lungs of laboratory mice. 4707
- **Adipic acids,** in Candida tropicalis, formation from n-alkanes with odd and even numbers of carbons. 1469
- **Adiponecrosis (multinodular),** and toxoplasmosis. 5038
- **Adolescent boy,** pulmonary alveolar proteinosis in pulmonary cryptococcosis in. 4453
- **Adolescent girl,** vulvovaginitis due to moniliasis in. 1683
- **Adrenal gland,** functional insufficiency of in acute intestinal infections. 6272
- **Adrenal insufficiency,** case report with histoplasmosis. 1011

- **Adrenergic reactive drugs,** effect of on Tetrahymena pyriformis in a chemically defined medium. 5520
- **Adriatic Sea (North),**
  - polychaetes in the Cystoseira-communities of. 1307
  - possibility of commercial exploitation of algae from. 1451
  - quantitative and qualitative phytoplankton distribution in. 1296, 1297
- **Adult,** Microsporum equinum infection of the scalp in. 3647
- **Aecidia,** of Gymnosporangium and their phyletic advantage. 5839
- **Aeciospores,** of Cronartium comandrae, daily germination of. 3221
- **Aedes,** tissue specificity and systematics of Nosema in. 482
- **Aedes aegypti,**
  - differential effect of Plasmodium gallinaceum on the fecundity of. 3742
  - susceptibility of to Plasmodium subpraecox. 5703
- **Aedes australis,** distribution of Coelomomyces opifexi in in New Zealand. 1318
- **Aerated lagoon,** design of. 7031
- **Aeration,** importance of in root rot and growth inhibition of orange seedlings. 2985
- **Aeration (artificial),** of water, effect on basin aleoflora. 3260
- **Aerial algae,** from Ishizuchi mountains in Japan. 5762
- **Aerial application,** of fungicides to control tomato anthracnose. 6991
- **Aerobic growth,** degradation of Saccharomyces cerevisiae mitochondria during deaeration of cells after. 2724
- **Aerobic microbial decomposition,** production of dissolved organic matter from dead green algal cells by. 7151
- **Aerobic oxidation,** of glucose by Trypanosoma cruzi, mechanism of. 2666
- **Aerobic state,** changes in the intensity of NAD-H$_2$ fluorescence in Candida guilliermondii during its transition from the anaerobic to. 6671
- **Aerobic system,** sludge yields in. 7030
- **Aerometric sampling,** relation to New Orleans asthma. 410
- **Afars,** leishmaniasis in. 1700
- **Afghanistan,**
  - fungi intercepted on plant consignments from. 1957
  - resistance to main diseases of spring barley in. 5736
- **Aflatoxicosis,**
  - altered lipid transport during. 5654
  - in chickens. 1055
- **Aflatoxin,**
  - of Aspergillus flavus. 2029
  - of Aspergillus flavus, effect of reducing agents on biosynthesis of by resting cells. 4181
  - of Aspergillus flavus, effects of UV-irradiation on production of. 7386
  - of Aspergillus parasiticus, biological effects of. 839, 3383, 6638
  - of Aspergillus parasiticus, correlation with norsolorinic acid production. 252
  - from Aspergillus parasiticus, preparation of. 253
  - in autopsy specimens from Thai children with an acute disease of unknown aetiology. 2225
  - chemical structure of and effect on bovine pancreas DNase. 2028
  - experiments with in rats and the malignant transformation of cysts in human hepatic cysts. 1695
  - in foodstuffs. 5156
  - in haricot bean and other pulses. 5161
  - high production on chemically defined medium. 840
  - infection of ground-nut pods by Aspergillus flavus isolates with different potential for production of. 1131
  - inhibition of fungal sporulation by. 2757
  - international check sample programme of. 4634
  - in laying hens, natural and extremely severe occurrence of. 5041
  - loss of feedback control of cholesterol synthesis in precancerous rat liver during treatment with. 7309
  - Mucor divergence in effects of with duckling bile and plasma. 1475
  - in peanuts, effect of harvesting methods and laboratory drying procedures on. 3111
  - in peanuts before digging, influence of fungicides and irrigation practice on. 1165
  - response of calves to single dose of. 6860
  - review. 837
  - screening method for in corn and various corn products. 3542
- **Aflatoxin ($^{14}$C- and $^{3}$H-labelled),** preparation of. 836
- **Aflatoxin (dietary),** relation to human liver cancer. 4437-4439, 4953, 4954
- **Aflatoxin B,** from Aspergillus flavus natural cultures, production of. 6063
- **Aflatoxin B$_1$,**
  - acute toxicity of in macaque monkey. 2277
  - anomalies in the hyphae of Thamnidium elegans caused by. 4287
  - effect on development of Drosophila melanogaster. 3382
  - enzymic conversion of to a derivative inhibiting in vitro transcription. 7306
  - formation of a factor lethal for Salmonella typhimurium on incubation of with rat liver microsomes. 1480
  - spp differences in the anticoagulant activities of. 5043

**Aflatoxin $B_1$ (biliary),** elimination by rat. 838
**Aflatoxin biosynthesis,** isolation of averufin by Aspergillus parasiticus mutant impaired in. 5417
**Aflatoxin contamination,** of miso and miso-koji in Japan, test on. 7694
**Aflatoxin content,** of Aspergillus flavus cultures, variation of with duration of incubation and relation to studies on aflatoxin production. 4826
**Aflatoxin formation,** in milk and milk products. 4828
**Aflatoxin inactivation,** in contaminated cottonseed meal. 2678
**Aflatoxin $M_1$,** derivative method for chemical confirmation of identity of. 4635
  in mink. 5657
**Aflatoxin poisoning,**
  case of. 2226
**Aflatoxin production,**
  of moulds isolated from country cured hams. 5783
  on wheat, corn, rice and peanuts, dichlorvos as inhibitor of. 7405
**Aflatoxin spots,** fading of on TLC plates during fluorescence densitometry. 2120
**frica,**
  congenital Trypanosomiasis in. 4468
  distribution of leishmaniasis in. 1644
  distribution of Puccinia on Latin American maize germ plasm. 660
  immunopathology of nephritis in. 7499
  lichens of. 601
  Naegleria in waters of. 680
  para-articular ossification as complication of trypanosomiasis in. 1707
**frica (Central),**
  blood protozoa of wild carnivores in. 689
  dung fungi from. 3268
  Pseudofavolus patouillard in. 3278
**frica (East),**
  glucose-6-phosphate dehydrogenase levels in haemoglobin types of cattle in, in relation to East Coast fever resistance. 4521
  physiologic specialization and epidemiology of wheat stem rust in. 4558
  Rhinophycomycosis entomophthorae occurring in a chimpanzee in. 5039
**frica (South),**
  Candida from insects in. 1954
  Endogone from soil in. 3265
  non-leguminous seed plants in which fix nitrogen symbiotically. 5276
  Parmelia subgenus Xanthoparmelia from. 602
  Phytophthora stem rot of passion fruit in. 4539
  Torulopsis from insects in. 1958
**frica (South West),** Phlebotomus rondani from. 2849
**frica (tropical),**
  marine fungi from. 3280
  toxoplasmosis in. 6227
**Africa (West),**
  Hemileia buntingii on Strophanthus in. 6549
  leaf scald of rice in. 5125
  parasitological studies among the population of a pile-built lake village of Ganvie in. 4415
**Africa (West-Equatorial),** bottom foraminifera from the continental shelf of. 7192
**African Republic (Central),** fungal pathogens of tsetse flies in. 5649
**African soils (East),** soil aeration, nitrogen mineralization and humus production in after drying and moistening. 7003
**Africans,** nape and scalp mycetomas in. 3649
**Africans (Gambian),** C-reactive protein in with reference to Plasmodium falciparum malaria. 2202
**Agar,** morphological and biological modifications of Trichomonas vaginalis grown in. 2133
**Agar (nutrient),** effect of fungal metabolites on colonization of fungi on. 2685
**Agar-diffusion assay,** of cellulolytic ability of thermophilic fungi. 2779
**Agathis,** Aecidium on. 1229
**Age,**
  absorption of minerals from the nutrient medium by Chlorella with respect to. 4355
  effect on avian aspergillosis. 1634
  effect on invasive amebiasis in the liver. 2921
  of Saccharomyces cerevisiae, synchronous and synchronized culture of with respect to. 936
  of Stereum purpureum, influence on growth in vitro. 1922
  of yeast cell, relation to response to auxin. 2065
**Age (different),** cobalt-60 accumulation by brown algae of. 7463
**Age of culture,**
  relationship to occurrence of pigments of photosystem II of photosynthesis in heterocysts of Anabaena. 6069
  relationship to occurrence of pigments of photosystem II of photosynthesis in heterocysts of a blue-green alga. 5423
**Age of host,** significance of on the pathogenic effect of Eimeria acervulina in the fowl. 6885
**Aged cells,** of Euglena granulata, acid phosphatase activity and ultrastructure of. 4763
**Ageing,**
  of Euglena gracilis, influence of cell metabolism on pigment composition in. 2039
  in Saccharomyces cerevisiae. 2495
  of stored pea seed, changes in germination, membrane permeability and ultrastructure resulting from. 7015
**Agglutinability,** of Saccharomyces cerevisiae type cells, hormonal regulation of. 5247
**Agglutination,**
  comparative study of the antigens of winemaking yeasts by. 7507

**Agglutination, contd.,**
  selection of non-foaming mutants of sake yeast by. 972
**Agglutination (sexual),** and mating-type substances in isogamous dioecious chlamydomonads. 6644
**Agglutination test (capillary-tube),**
  detection of circulating Trypanosoma antibodies by. 363
  for malaria. 6803
**Agglutination test (charcoal particle),** for detection of antibody to Cryptococcus neoformans. 2208
**Agglutination test (latex),**
  for amoebiasis in adults, preliminary report. 952
  for Toxoplasma antibody, assessment of. 6805
**H-Agglutinin,** from eel-serum, isolation and purification of fucoxylomannan from Fomes annosus fruit bodies by precipitation with. 4160
**Agglutinogens,** of serological variants of Trypanosoma evansi. 5602
**Agglutinogens (variable),** of Trypanosoma gambiense and their distribution, trypanosomes from different places in Nigeria. 6800
**Aggregate stabilization,** by filamentous microorganisms. 3808
**Aggregateless mutants,** in Dictyostelium discoideum, appearance of wild type from mixed culture of. 4944
**Aggregation,**
  in Dictyostelium discoideum, control of by external periodic pulse of cyclic AMP. 2773
  of Dictyostelium discoideum, inhibition of by antibodies against cyclic AMP diesterase. 5465
  of Dictyostelium discoideum, periodic signal control pattern formation in. 551
  of Dictyostelium discoideum, relevance of changes in cell surface charge density to. 3144
  of filaments into palmettes, in Leptoporus lignosus, determinants in. 5251
**Aggregation (light induced),** in Polysphondylium pallidum, action spectrum of. 7363
**Agitation,** of Achlya bisexualis, effect on development. 880
**Aglycone,** of chartreusin in Streptomyces, biosynthesis of. 266
**Agriculture,** contribution of to the eutrophication of the waters of Switzerland. 7179
**Agro-chemicals.** 4605
**Agrosan GN,** evaluation of against foot-rot of wheat. 2366
**Agrostis,** yeast isolated from noctuids and their pathogenicity to. 6292
**Agrostis palustris,**
  effect of benomyl on eradication of Ustilago striiformis from. 7646
  effect of infection by Ustilago striiformis var agrostidis on inflorescence development on. 7647
  sporadic development of Ustilago striiformis in axillary buds from stolon nodes of perennially infected. 1126
**Air,**
  effect of incubation temperature on Cladosporium herbarium isolated from. 4258
  expired by humans, study of fungal content of. 665
  induction of heteroallelic reversions and lethality in Saccharomyces cerevisiae exposed to radiations in. 899
  selective isolation of Cladosporium resinae from. 2783, 4336
**Air-assisted sprayer (conventional),** for control of coffee berry disease. 5137
**Air fungal spora,** seasonal variation in in Gorakhpur. 1336
**Air pressure incorporation,** of fungicides into short stalk sections of sugar cane for the control of red rot. 6952
**Air spora,** of 2 contrasting ecological site in Kansas. 5290
**Aircraft tank,** growth of Cladosporium resinae on fuel oil and water contaminants in. 6419
**Alanine,** in Ustilago maydis, synthesis of. 1441
**L-Alanine,** in the culture of Leishmania tarentolae. 1600
**L-α-Alanine,** in Saccharomyces sake, protecting effect on the inhibitory action of α-phenethyl alcohol. 2700
**Alanine aminotransferase,** in Leishmania tarentolae. 187
**Albumin (endocytosed),** degradation of by Chaos chaos. 2079
**Alcohol (α-phenethyl),**
  influence of various amino acids in Saccharomyces sake on the inhibitory action of. 2700
  recovery of respiration of Saccharomyces sake cells grown with. 2701
**Alcohol (decyl),** enzymatic conversion of 1-decene to by Candida rugosa. 3337
**Alcohols (higher),**
  effect of the number of inoculated Saccharomyce carlsbergensis cells and the number of generations on the accumulation of yeast biomass production of. 5433
  of Saccharomyces carlsbergensis, biomass yield and accumulation of. 866
**Alcohols (sugar),** uptake of by Schizophyllum commune basidiospore during germination. 5391
**Alcohols (triterpenoid),** of Spirulina platensis. 266
**Alcohol dehydrogenase,**
  in Colpoda maupasii, activity of. 191
  in Mucorales. 160
  of yeast, reaction of 2-methyl-1, 4-naphtho-

**Alcohol dehydrogenase, contd.,**
  quinone. 170
**Alcyonarians,** density of symbiotic algal cells in. 5917
**Aldabra Atoll,** carbon fixation in Cassiopea at. 5916
**Alder (red),** Poria weirii-inhibiting and other phenolic compounds in roots of. 2751
**Aldolase,**
  of Chlamydomonas reinhardtii. 1970
  from Entamoeba histolytica in axenic culture, activity of. 3341
  of yeast, affinity labelling by haloacetol phosphatases. 775
  of yeast, differential reactivity of the sulphydryl groups of towards p-hydroxymercuri-benzoate. 6017
**Aldolase (phospho-2-keto-3-deoxyheptonate),** from Anacystis nidulans, regulatory properties of. 5320
**Aldolase (threonine),**
  from bacteria and yeasts, formation of. 1417
  from Candida humicola, purification, crystallization and properties of. 3334
**Aldose reductase,** from Rhodotorula reaction mechanisms of. 765
**Aldrin,** growth response of blue-green algae to. 5453
**Alectoria ochroleuca,** Tichothecium alectoriae on. 1228
**Aleuriospore formation,** in Aspergillus, effect of light on. 2728
**Alfalfa,**
  downy mildew on. 7618
  leaf disease control and yield increase in with fungicides. 6974
  role of phytoalexin medicarpin in leaf spot diseases of. 6984
  selection for resistance to anthracnose in. 3777
**Alfalfa fields,** study of 4 weed hosts of Sclerotinia in. 2998
**Algae,**
  as food for Antarctic arthropods. 537
  quality changes in and eutrophication in Lake Michigan. 545
**Algae (coraline),** of California, changes and additions to. 647
**Algae (diatomaceous)),** of the boreal transgression sediments in the Vaga river. 3
**Algae (marine),**
  Amphiroa currae from Venezuela. 648
  from California. 560
  from the Japan coast. 110, 113
  from Kojima island off the southwestern coast of Hokkaido. 114
  from San Luis Obispo County, California. 645
  lipase activators in. 724
**Algal mat,** from desert soil, ketocarotenoids from. 228
**Algal-bacterial symbiosis,** for removal and conservation of wastewater nutrients. 2418
**Algeria,** plant industry in. 6370
**Alginic acid,** in Laminaria digitata, ecology, growth and regeneration capacity of. 5272
**Alginic acid (acetyl),** from Cystoseira barbata, preparation of and evaluation of the acetyl process. 5431
**Alginic acid (extracellular),** in Fucus distichus, immunocytochemical localization of. 5387
**Alginic acid content,** in Sargassum cervicone, seasonal variation of. 1493
**Alginic acid synthesis,**
  in Laminaria. 4131
  in Laminaria digitata. 4132
**Alkali-stable material,** from Pleurochrysis scherffelii scales, characterization of. 6029
**Alkaline-earths,** resistance of Cyanophytes to strong concentrations of. 877
**Alkaline treatment,** changes in the structure of funoran by. 7357
**Alkaloid fermentation (ergot),** cell pool tryptophan phases in. 1479
**Alkaloid production,**
  by Claviceps, physiology of. 6631
  by submerged Claviceps, correlation of certain alterations in metabolic activity with. 1495
**Alkaloids,**
  in Aspergillus flavus, biosynthesis of. 207
  in the ergocryptine str of ergot, composition of. 4821
  excretion by algae. 864
**Alkaloids (ergot),**
  biosynthesis of. 4819
  of Claviceps purpurea, incorporation of U-$^{3}$H-marked dihydrochanoclavine into the tetracyclic ergoline ring system of. 5414
  effects of on cerebral haemodynamics in man. 4822
  gas chromatography of. 1476
  inhibition of mammary tumorigenesis in adrenoovariectomized mice by. 4820
  suppression of puerperal lactation with. 5415
**Alkaloids (ergotoxine),** incorporation of dipeptides in. 3379
**Alkaloids (hydrated ergot),** in cases of Respiratory-Distress-Syndrome. 4994
**Alkaloids (lysergic acid),** Claviceps paspali producing, violet pigment of. 278
**Alkaloids (peptide-type ergot),** biosynthesis of. 4817, 4818
**Alkane,**
  in Candida tropicalis, participation of cytochrome $P_{450}$ in the oxidation of. 824
  effect of fatty acids on the growth of Candida tropicalis in the presence of. 4857
  isolation, substrate assimilation and some products of moulds causing oxidation of. 5303
  oxidation of by Penicillum and Pseudomonas aeruginosa. 242

**N-Alkane**,
  adaptation of Rhodotorula to. 4175
  comparative investigations on activity determination of some enzymes from yeast after growth on. 6154
  degradation of by Candida. 4218
  fatty acid distribution in triglycerides of yeasts grown on. 6628
  fatty acid spectrum of Candida after culture on. 5408
  growth of Torulopsis candida on. 6176
  linear growth of Torulopsis on. 6752
  microbial production of long-chain di-carboxylic acids from. 4215, 6078
  phospholipids of Blakeslea trispora during growth on. 231
  with odd and even numbers of carbons, formation of glutaric and adipic acids from by Candida tropicalis. 1469
**N-Alkane (low-molecular)**, synthesis of heavy hydrocarbons during yeast growth on. 6653
**Alkane metabolism**, by yeast. 240
**Alk-1-enes**, oxidation of by Penicillium and Pseudomonas aeruginosa. 242
**2-Alkylamino-1,4-naphthoquinones**, synthesis of as inhibitors of coenzyme Q and as antimalarials. 6141
**α-(Alkylaminomethyl)-4-naphthol 2, 1-b thiophenemethanols**, as antimalarials. 4309
**Alkylation mechanism (sterol side-chain)**, in Trebouxia, observation on. 7292
**Allantoic fluid composition**,
  changes in during the development of chicken embryo and influence of Trypanosoma brucei. 6303
  of chicken embryo, effect of changes in on the viability of Trypanosoma brucei. 5674
**Allele**,
  shared specificities in the B incompatibility factor of Schizophyllum commune, tests for. 396
  variability in comparative complementation in yeast. 391
**Alleles (resistant)**, in Neurospora crassa, variability of in the aza-1 locus with respect to excretion of purines. 2828
**Allelic complementation (negative inter-)**, in Schizosaccharomyces pombe. 1620
**Allelic crosses (pyr-3 inter-)**, in Neurospora, attempts to restore fertility to. 1606
**Allelic interaction**, at the genetic and protein level. 3586
**Allelic interaction (intra and inter)**, estimation of in yeast. 392
**Allelic modulation**, in Paramecium aurelia heterozygotes. 1633
**Allelic reversions (hetero)**, in Saccharomyces cerevisiae, induction of by exposure to radiation in air and nitrogen atmospheres. 899
**Allelic variability**, in comparative complementatio confirming that the ade12-specified protein o yeast is bifunctional. 1615
**Allergen (dematiaceous mould)**, skin reaction patterns to. 2206
**Allergenic properties**, of Chlorella, studies of. 3998
**Allergic interstitial pneumopathy**, immunological and epidemiological study of. 6776
**Allergic pathomechanisms**, of chronic recurrent aphthae, studies on. 2785
**Allergic reactions (para)**, in occupational dermatitis, role of fungal infections in the development of. 7586
**Allergic reactivity**, and chronic amoebic colitis. 6276
**Allergy**,
  to Candida albicans in children. 5621
  Fusarium causing. 6261
  to penicillin, studies of in the course of dermatomycoses. 2904
  to precipitins due to Aspergillus fumigatus. 3630
  in stomatitis prothetica. 3636
**Allergy (broncho-pulmonary mould)**, causing equine pulmonary emphysema. 7582
**Allergy (mould)**, micromycetes in the atmosphere of the Lyons area in relation to. 4039
**Allergy tests**, in patients with perioral dermatitis. 1680
**Allicin**, role of in resistance of garlic to Penicillium. 2684
**Allisan**,
  control of Sclerotinia with. 6338
  as post harvest chemical treatment of apple against rot and deterioration. 540
**Allium cepa**,
  resistance to Alternaria porri in. 3023
  resistance to leaf blight in. 1774
**Allium test**, investigations of the biological activity of higher fungi using. 4062
**Allocyathin B$_3$**, of Cyathus helenae. 6062
**Allyl alcohol**,
  effect of composition of medium on utilization of by Trichoderma viride. 4365
  effect on Egyptian soil fungi. 2396
**Almond**, Taphrina deformans parasitic on. 1115
**Alnus**, role of in improving the forest environment 5730
**Alpine lakes**,
  different forms of eutrophication in. 1195
  plankton productivity in. 2527
**Alps**,
  Grahamella and Sporozoa as blood parasites of small mammals in. 4058
  lichens of, occurrence of thecate amoebae in. 682
  plants of, occurrence of thecate amoebae in. 6
  Rhodocybe borealis and R. asterospora from. 584

- **Alps (northern),** dermatophytic onyxis in a closed community in. 2845
- **Altenuene,** analysis by chromatography. 354
- **Alternariol,**
  - analysis by chromatography. 354
  - analysis of tobacco for. 3834
- **Alternariol monomethyl ether,** analysis by chromatography. 354
- **Altitude,** study of acid activity of Aspergillus isolated from different levels of. 2051
- **Aluminium,** of laver, relationship between chemical constituents in environmental factors. 791
- **Aluminium complexes,** of mannose-containing microbial polysaccharides, decomposition and binding action in soil of. 6380
- **Amami Island,** occurrence of Gibsmithsia in. 6523
- **α-Amanitin,**
  - from Amanita phalloides, effect on RNA synthesis in polytene chromosomes. 833
  - antagonistic effects to. 2939
  - effect of Poly I, Poly C and endotoxins on toxicity of. 2940
  - effect of on RNA synthesis in nuclei and nucleoli isolated from Physarum polycephalum at different times during the cell cycle. 7362
  - effects of in vitro on RNA polymerase and nuclear RNA synthesis. 6632
- **α-Amanitin poisoning,** by cytochrome c, curative potencies against. 7523
- **Amastigote,** of Trypanosoma cruzi, comparison of new antigen from with antigen from epimastigotes for the diagnosis of Chagas' disease. 1661
- **Amastigote phase,** of the sleeping sickness trypanosome. 3657
- **Amatoxins,** structure and effects of. 5416
- **Amavadin,** from Amanita muscaria, isolation of. 4823
- **Ambystoma tigrinum,** coccidia from in north-eastern Colorado and northern New Mexico. 6558
- **America,** see also USA.
  - dermatology in. 3655
  - leishmaniasis in. 1642
- **America (Central),**
  - Morchella herediana from. 6551
  - Pezizales from. 6545
- **America (North),** Nummularia spp from. 25
- **America (South),**
  - agarics from. 1236
  - antiparasitic therapy in. 5645
  - bronchial involvement in blastomycosis in. 1032
  - conglutinating complement fixation reaction in blastomycosis of. 929
  - Cyttariales of. 6539
  - problems of cattle sanitation in. 6780
  - specific precipitant antibodies in blastomycosis in revealed by immunoelectrophoresis. 1653
- **America (tropical),** marine fungi from. 3280
- **American beachgrass,** Marasmius blight in. 505
- **American isolates,** of Verticillium albo-atrum in hirsutum, virulence of compared with Australian isolates. 2380
- **Amerosporous Coelomycetes,** conidium ontogeny in. 1924
- **Amidases (β-naphthyl),** study of the localization, cellular linkage and dynamics of in dermatotrophic and non-dermatotrophic mycetes. 4124
- **Amide groups (non planar),** antamanide, evidence for a conformational change and. 6061
- **Amide-terminal residues,** of Neurospora crassa proteins. 1436
- **Amide terminus,** in Mucor miehei protease, modification of. 5970
- **Amidolyase (urea),** from Candida utilis, properties of. 7245
- **Amines (aliphatic),** as antipityrosporum agents. 3506
- **Amines (nonaromatic),** fungistatic activity of cations of. 3505
- **Aminidase (β-N-acetylglucose),**
  - activity of in Dictyostelium discoideum in axenic culture. 3310
  - synthesis of in Dictyostelium discoideum myxamoebae differentiation in axenic culture. 3311
- **Amino acid,**
  - absorption of by Trypanosoma gambiense. 4796
  - of Actinomyces aurigineus producing cormarine, composition of. 806
  - activation of plant glyceraldehyde-3-phosphate dehydrogenase by. 2583
  - blue-green algal response to. 1586
  - changes in in mango fruits infected by Diplodia natalensis. 6955
  - changes in tomato fruits after fungal infection. 509
  - cycloheximide resistance incorporation into cytochrome oxidase of Neurospora crassa. 198
  - effect of Aspergillus flavus deterioration of grain on. 5794
  - effect on growth of laver. 3348, 3349
  - effect of hydroxylamine on the growth and synthesis of in Aspergillus niger mycelium. 6173
  - extrusion of carbon accompanying uptake of by marine phytoplankton. 3565
  - immobilization of fungal motile cells by. 881
  - induction of mutation in Ustilago maydis by analogues of. 320
  - metabolism of by Entodinium simplex. 5567
  - microbial production of. 4142
  - in Neurospora crassa, inducible transport system of. 195
  - of Neurospora crassa NAD$^+$ specific glutamate dehydrogenase, composition and properties of. 797

**Amino acid, contd.,**
  as nitrogen sources for Phytophthora. 958
  from Ochromonas danica, secretion of into the environment. 2646
  promotion of stipe elongation in isolated Flammulina velutipes fruit bodies by. 5561
  in psychrophilic basidiomycete cultures, as source of HCN. 802
  regulation of glutamate dehydrogenases in Neurospora crassa as a response to. 1980
  of Rhodotorula glutinis, utilization of. 1444
  of Saccharomyces sake, effect on inhibitory action of $\alpha$-phenethyl alcohol. 2700
  of Schizosaccharomyces pombe, changes during the cell cycle. 2003
  in Streptomyces griseus,Protease A sequence of. 807
  of Trigonella, changes in after infection with Peronospora trifoliorum. 1094
  in Tetrahymena pyriformis, macromolecule synthesis leading to cell division after replacement of. 1379
  in Trypanosoma gambiense, short-interval absorption and metabolism of. 5382
  uptake of by actidione-treated yeast cells. 2143, 6093, 6094
  utilization in mixtures by storage rot fungi. 1597
$^{14}$**C-Amino acid,** effect of antimalarial drugs on uptake and incorporation of by Tetrahymena pyriformis. 3519
**Amino acid (chloroplast),** change in in rice leaf infected by Helminthosporium oryzae. 4592
**Amino acid (essential),** in the culture of Leishmania tarentolae. 1600
**Amino acid (free),**
  liberation of by Chlorella pyrenoidosa during growth and cell division. 3345
  in the muscle of the chicken, influence of duodenal coccidiosis on. 1080
  pattern of incorporation of labelled carbon into during yeast cultivation on hydrocarbons. 7273
  role of in anthracnose disease development in grapevine. 4588
**D-Amino acid (free),** in the cell pool of fungi and actinomycetes. 6039
**Amino acid (iodized),** in hydrolysates, fate of iodides fixed by various marine algae and determination of. 7266
**Amino acid (N-terminal),** of a $\beta$-glucosidase from Aspergillus wentii. 2652
**Amino acid (NH$_2$-terminal),** of Neurospora crassa proteins. 199
**$\alpha$-Amino acid (new unsaturated),** New Guinea Boletus, isolation and identification of. 5378
**Amino acid (poly-$\alpha$, L),** action of yeast proteinase C on. 6015
**Amino acid (sulphur),** modification of pigmentation and cell-wall structure of Rhodotorula aurantiaca by culture in the presence of. 6677
**Amino acid (sulphur-containing),** effect on sclerotium formation in Sclerotium. 1285
**Amino acid activation,** of glyceraldehyde-3-phosphate dehydrogenase from Chlorella. 6582
**Amino acid composition,**
  of $\beta$-cyclopiazonate oxidocyclase from Penicillium cyclopium. 4119
  of Foraminifera. 4146
  of Helminthosporium carbonum toxin. 2682
  of yeast inorganic pyrophosphatase. 737
**Amino acid composition (essential),** of the protein of Volvariella diplasia. 4793
**Amino acid content,** of tomato xylem sap following infection with Verticillium albo-atrum, changes in. 7676
**Amino acid content (free),** of greening-affected an healthy plants of sweet orange. 4575
**Amino acid metabolism,** in Dictyostelium discoideum, tyrosine transaminase in. 156
**Amino acid metabolizing enzymes,** in Dictyosteliu discoideum, partial characterization of. 476
**Amino acid pools,** of Sphacelotheca reiliana, comparison of. 7271
**Amino acid pools (free),** analysis of in fungal mycelia. 4141
**Amino acid precursor studies (protonated),** on rhodotorulic acid biosynthesis in deuterium oxide media. 6040
**Amino acid replacement,**
  in iso-1-cytochrome c, demonstration of the UAA ochre codon in bakers' yeast by. 6764
  in iso-1-cytochrome c, demonstration of UAG as nonsense codon in bakers' yeast by. 6767
**Amino acid sequence,**
  around the active-centre disulphide of thioredoxin I and II. 1437
  between cysteine residues, of Saccharomyces cerevisiae isocytochrome c, revision of. 5372
  of cytochrome c from Crithidia oncopelti. 4147, 4794
  of cytochrome c from Debaryomyces kloeckeri. 1435
  of glyceraldehyde 3-phosphate dehydrogenase from baker's yeast. 4773
**Amino acid transport,**
  in Achyla, Ca$^{2+}$ as specific regulator of. 6615
  in Nitzschia ovalis. 4789
  in Trypanosoma lewisi, mechanisms of. 4795
**Amino acid transport mutant,** of Neurospora crass disruption of by KCl. 3457
**Amino group (compounds containing),** effect on microbial growth in medium with oil fuel. 3472
**Aminoalcohols,** structure and antimalarial activity of. 4901
**Aminoacylation,**
  of fragment combinations from yeast tRNA$^{Phe}$. 3362

**Aminoacylation, contd.,**
  of $tRNA^{Asp}$ and $tRNA^{Trp}$ of yeast, optimal conditions for. 716
**Aminoacylation (interspecies),** of tRNA from higher plants, Neurospora, yeast and Escherichia coli. 5944
**$\alpha$-Aminoadipate,** in Saccharomyces, conversion to $\alpha$-aminoadipic $\Delta$semialdehyde. 1439
**2-Aminobutane,** mechanism of action of. 5478
**2-Aminoethylphosphonic acid,** in Tetrahymena, intracellular distribution of. 2706
**2-Aminoisobutyrate,** effect of temperature and accumulation by Candida utilis. 889
**$\delta$-Aminolevulinic acid,**
  in Chlorella, studies on biosynthesis and metabolism of. 1431
  production of during the onset of green colouration of pale Euglena and its relation to photosynthesis. 4199
**Aminopeptic behaviour,** of fungi, study of. 4123
**Aminopyrine,** antagonistic effects to phalloidin and $\alpha$-amanitin. 2939
**6-Aminoquinoline,** as antimalarials. 6142
**8-Aminoquinoline,** inhibited incorporation of $AMP\text{-}8\text{-}^3H$ into nucleic acids of erythrocyte-free malarial parasites by. 4863
**Aminoquinoline resistant Plasmodium falciparum,** response of to combined therapy in Panama. 7568
**Amitosis,** of Paramecium aurelia macronucleus. 1936
**Ammonia,**
  comparative growth of Cyanidium caldarium on at different temperatures. 7348
  control of fatty acid and lipid biosynthesis in Euglena gracilis by. 4166
  effect on growth, photosynthesis and ribulose-diphosphate carboxylase content of Dunaliela tertiolecta. 3443
  regulation of nitrate reductase synthesis by and activity in Chlamydomonas reinhardtii. 7351
  regulatory effects of on carbon metabolism in Chlorella pyrenoidosa during photosynthesis and respiration. 4194
**Ammonia (anhydrous),** Fusarium foot rot of wheat and peas as influenced by soil applications of. 4586
**Ammonia inhibition,** of the general amino acid permease and its suppression in NADPH-specific glutamate dehydrogenaseless mutants of Saccharomyces cerevisiae. 6595
**Ammonia treated cottonseed meal,** chemical and biological properties of. 2678
**Ammonium,**
  assimilation of by Chlamydomonas reinhardtii. 6166
  growth and composition of phytoplankton in shipboard cultures supplied with. 3531
**Ammonium hydroxide,** for preventing clubroot of cauliflower in loam and peat soils. 3085
**Ammonium ion,** measurement of effect of on dark carbon dioxide fixation in nitrogen from low-nutrient sub-tropical water. 4153
**Ammonium nitrogen,** utilization of by fungi. 5564
**Ammonium repression,** of extracellular protease in Aspergillus nidulans. 6100
**Ammonium sulphate,** effect of on RNA synthesis in nuclei and nucleoli isolated from Physarum polycephalum at different times during the cell cycle. 7362
**Ammophila breviligulata,** Marasmius blight in. 505
**Amo-1618,** effect of on Fusarium and Verticillium wilt of tomato. 1138
**Amodiaquine,**
  preliminary studies on Philippine str of Plasmodium falciparum resistant to. 7567
  synthesis of indoloquinoline analogue of. 2765
**Amoebiasis,**
  in adults, latex agglutination test for. 952
  chemoprophylaxis of with metronidazole. 2913
  in citizens of the GDR travelling abroad. 2853
  clinical symptoms and diagnostics of combined forms of with acute dysentery. 4476
  colic pseudo-tumoural forms of. 3674
  colon perforation in. 2912
  community control of by periodic mass treatment with metronidazole. 7564
  diagnosis of. 1648
  examination of patients returning from a tropical country for. 1050
  fluorescent antibody test in serodiagnosis of. 4979
  immunodiagnosis of. 365
  immunological diagnosis of. 1663
  low dosage medication with metronidazole in. 3663
  in Malaysia, single-dose and short dose regimens of metronidazole in the treatment of. 5640
  in male and female genital organs. 3672
  necropsy findings in a fatal case of in a chimpanzee. 3715
  occurrence of in Sabah Hospital, Kuwait. 2240
  pathogenicity of Entamoeba histolytica causing. 2288
  pathology of in humans. 1042
  in patients with inflammatory bowel disease, indirect haemagglutination test for. 4929
  pericarditis as unusual complication of. 5641
  among the population of a pile-built lake village of Ganvie. 4415
  in the preimaginal honey bee. 2289
  prevalence of in selected community. 4409
  in seamen. 1708
  seroepidemiology in Arkansas. 2852
  serologic diagnosis of. 4978
  simulating carcinoma of the anus and perianal region. 2914
  skin changes in. 1039
  treatment of. 1713, 2911
  work of the World Health Organization in. 2848

**Amoebiasis (cerebral invasive),** in children. 3667

**Amoebiasis (chronic).** 4410

**Amoebiasis (cutaneous invasive).** 2919

**Amoebiasis (hepatic),**
- in Ceylon. 3664
- new concepts of. 5642
- haematological and biochemical response to during specific therapy. 3673
- radiological changes in. 455
- serological diagnosis of by the indirect fluorescent antibody test. 1038, 1711
- treatment of with MK-910. 3662
- ultrasonic diagnosis of. 2917

**Amoebiasis (hepatic abscess),**
- clinical aspects of in children. 3670
- nitroblue tetrazolium test in. 366

**Amoebiasis (intestinal),**
- cicatricial structure in. 6838
- clinical aspects of in children. 3669
- proctoscopic appearances with histopathological correlation. 456
- role of Dientamoeba fragilis in the biliary tract of man in. 2256

**Amoebiasis intestinal (non dysenteric),** use of metronidazole in the treatment of. 6837

**Amoebiasis (invasive),**
- case of. 2918
- effect of sex and age on, in the liver. 2921
- evaluation of metronidazole and MK-910 in. 2257
- localization of in children. 3665
- opportunist mycoses in. 3668
- serologic diagnosis of with counter immunoelectrophoresis technique. 3616
- serological reactions in with fluorescent antibody technique. 3614, 3615
- surgery of. 2926

**Amoebiasis (invasive cerebral).** 3671

**Amoebiasis (invasive hepatic),** association with other diseases. 2920

**Amoebiasis (pericardial),** following amoebic liver abscess of the left lobe. 3660

**Amoebic dysentery,** extensive stenosis of the colon and fistula formation following. 2258

**Amoebicide,**
- laboratory evaluation of panidazole as. 5680
- in vitro activity on isolated Entamoeba histolytica. 343

**Amoebocytes (host),** in giant clams, intracellular digestion of symbiotic zooxanthellae by. 1810

**Amoeboma,**
- of the ascending colon, cholecystocolonic fistula following. 5031
- of the cecum and ascending colon, medical treatment of. 2925
- review. 5030

**Adenosine monophosphate,**
- activation of glutamate dehydrogenase from Blastocladiella emersonii by. 2588
- carbon dioxide fixation by in Euglena gracilis chloroplasts. 5429
- models for the interpretation of allosteric inhibition of Candida utilis fructose bisphosphatase by. 6104

**3' 5'-Adenosine monophosphate and 5'-AMP,** in Dictyostelium discoideum, effect on glycogen degradation synthesis. 1453

**Adenosine monophosphate-8-$^{3}$H,** inhibited incorporation of into nucleic acids of erythrocyte-free Plasmodium berghei by acridines, phenanthridines, and 8-aminoquinolines. 4863

**Amphibians,** distribution of Basidiobolus ranarum in. 1952

**Amphipoda,** Paramacrinella microdeutopi as trichomycete parasite of. 1722

**Amphotericin B,**
- and candidiasis prevention in surgery. 1684
- effect of oral application on experimental mouse trichophytosis. 1065
- effect of rapid intravenous infusion on serum concentrations of. 1022
- in vitro sensitivity of Torulopsis glabrata to. 338
- in vitro susceptibility of pathogenic Naegleria gruberi. 344
- potentiation of the antifungal effects of antibiotics by. 7402
- potentiation of rifampicin as an antifungal agent against the yeast phase of Histoplasma capsulatum by. 7409
- potentiation of rifampicin and 5-fluorocytosine as antifungal antibiotics by. 4292
- problems in the treatment of pulmonary candidiasis with. 1021
- survival of Candida septicaemia treated with. 6817
- synergistic action of with 5-fluorocytosine against yeast-like organisms. 2102
- treatment of blastomycosis with. 6249
- treatment of Candida peritonitis in a quadriplegic by. 4451
- treatment of lung aspergilloma with transparieta injections of. 4999
- treatment of pulmonary mycoses with. 2241
- use of experimental animal model as test for. 6284

**Amphotericin B dosage,** for chronic pulmonary histoplasmosis. 5628

**Amphotericin B lavage,** in the treatment of candidal cystitis. 7532

**Ampicillin,**
- from Kluyvera citrophila, enzymatic synthesis of. 845
- treatment of neonatal infections with. 1023

**Amprolium,**
- efficacy of in the prevention of hepatic coccidiosis in rabbits. 6886
- susceptibility of broilers to coccidiosis followin withdrawal of. 424

- **Amylase,**
  - of Aspergillus oryzae, purification and preliminary characterization of. 753
  - of Aspergillus oryzae, study of by electrophoresis and immunoelectrophoresis. 752
  - in the post-embryonic stage of Labeo rohita, electrophoretic determination of. 3850
  - in Schizophyllum commune, developmental regulation of during fruiting. 1406
- **$\alpha$-Amylase,**
  - in Aspergillus oryzae, role of cell membrane in the regulation of biosynthesis of. 6005
  - in Aspergillus oryzae, study of the number of sulfhydryl and disulphide groups in. 1442
  - from microscopic fungi, comparative investigation of chemical structure of. 747
- **Amylase ($\alpha$ and $\beta$),** hydrolysis of starch from different plant sources by. 4114
- **Amylase (gluco),** from Aspergillus niger, structural characterization of 2 forms of. 6603
- **$\alpha$-Amylase activity,** of Entamoeba histolytica. 6022
- **Amyloglucosidase,** hydrolysis of starch from different plant sources by. 4114
- **Amyloidity,** in polypores. 4169
- **Amylopectin,** comparison of the action of yeast isoamylase and bacterial pullulanase on. 1992
- **Anaemia,** association of with falciparum malaria. 3677
- **Anaemia (microangiopathic haemolytic),** mechanism of induction of by Aspergillus. 2879
- **Anaemia (severe haemolytic),** association of hereditary elliptocytosis with. 5037
- **Anaerobic digestion,** fate of aluminium-precipitated phosphorus in. 7025
- **Anaerobic energy metabolism,** effects of intracellular interactions on. 6674
- **Anaerobic growth,**
  - molar growth yields of yeasts during. 2112
  - of Schizosaccharomyces japonicus. 909
- **Anaerobic microbial decomposition,** production of dissolved organic matter from dead green algal cells by. 7152
- **Anaerobic state,** of Candida guilliermondii, changes in the intensity of NAD-$H_2$ fluorescence during transition from to the aerobic state. 6671
- **Anaerobic yeast cell,** application of kinetics of yeast pyruvate kinase in vitro to calculation of glycolytic flux in. 6591
- **Anaerobiosis,**
  - of Neurospora crassa, effect on mitochondrial biogenesis. 965
  - oleanolic acid as growth factor for wine yeast in. 3463
- **Anaerobiosis resistance,** and respiration of freshwater algae. 7361
- **Anaesthetics,** influence on the locomotor pressure of myxomycete plasmodium. 4849
- **Analysis (sedimentation),** of Stylonychia mytilus, macronuclear and micronuclear DNA. 1376
- **Analysis (statistical),** and parameter estimation for growth models of cultures with 2 liquid phases. 6729
- **Anaphase (mitotic),** observations of in Schizosaccharomyces pombe. 1621
- **Anaphylaxis-like reaction (fatal),** induction by yeast mannans in nonsensitized mice. 3691
- **Anaplasmosis losses,** increase of. 6879
- **Androgyny,** differentiation to dicliny of the oogonia and antheridia of Achlya flagellata. 15
- **Androstane derivative,** $14\beta$-hydroxylation of by Cercospora melonis. 826
- **Androst-4-ene-3, 17-dione,** incubation with Aspergillus niger, in production with 18-hydroxyandrost-4-ene-3, 17-dione. 823
- **Anergie (cutaneous),** hyperkeratinized moniliasis of the pseudoepithelium of the lower lip as. 6254
- **Aneuploid states,** in Aspergillus nidulans, phenotypic specificity of. 1625
- **Aneurysm (aortic),** Aspergillus fumigatus endocarditis of aortic homograft with. 430
- **Aneurysm (micro),** of the capillaries of the retina in a case of vascular pseudopapillitis. 2935
- **Aneurysm (mycotic),**
  - of the femoral artery. 1030
  - following purulent meningitis, case report. 2247
  - of the left subclavian and vertebral arteries. 1031
- **Angiosperms (mycotrophic achlorophyllous),** phylogeny and ecology of. 2400
- **Angmering,** mushroom growing at. 2407
- **Angola,** observations on the sensitivity to diamidine compounds of recently isolated Trypanosoma gamgiense in the Republic of Zaire in. 5054
- **Aniles (5-nitro-2-furaldehyde substituted),** antibacterial activity of. 7416
- **Aniline,** antifungal activity of. 911
- **Anilines (dinitro),** effect of on solanaceous vegetables and soil fungi. 6700
- **1-Anilino-8-naphthalene sulphonate,** as coenzyme-competitive inhibitor of yeast glyceraldehyde-3-phosphate dehydrogenase. 6108
- **Animal receptivity,** effect on avian aspergillosis. 1634
- **Animals,**
  - role of symbiotic bacteria in Pelomyxa palustris in the respiration and proliferation of. 1287
  - technical errors in nutrition and nutritional intoxication in the feeding of. 7010
- **Animals (domestic),**
  - immunological methods in diagnosis of protozoan diseases in. 6807
  - isolation of dermatophytes and other keratinophilic fungi from apparently healthy skin coats of. 4957
- **Animals (North American),** nyctotherans from. 4055
- **Animals (sentinel),** use in epidemiological studies of cutaneous leishmaniasis. 986

**Anion inhibitors**, structural requirements for inhibition of yeast imidazoleglycerol phosphate dehydratase by. 1424
**Anion transport systems**, of yeast mitochondria, effects of physiological and genetic manipulation on. 7482
**Anlagen (macronuclear)**, in exconjugants of Blepharisma seschachari, effect of hydroxyurea on the development of. 3477
**Annellides**, in amerosporous Coelomycetes, relation to conidium ontogeny. 1924
**Annellophore**, of Monotosporella sphaerocephala, fine structure of. 4684
**Annosus root rot**, photography as aid in estimating tree mortality caused by. 2118
**Anobiid eggs**, scanning electron microscopy of the surfaces of. 3282
**Anopheles**, tissue specificity and systematics of Nosema in. 482
**Anopheles balabacensis balabacensis**, transmission of Plasmodium knowlesi by. 2971
**Anopheles crucians**, incidence of Coelomomyces in larval populations of in 2 Louisiana ponds. 5651
**Anopheles elegans**, as vector of simian malaria in Ceylon. 2974
**Anopheles freeborni**, transmission of Plasmodium falciparum between monkeys by the bite of. 7611
**Anopheles larvae**, case of Coelomomyces infections in. 2942
**Anopheles quadrimaculatus**, infected with Nosema, transmission of Plasmodium gallinaceum by. 7612
**Anopheles stephensi**,
  microbial infections associated with plasmodial development in. 484
  susceptibility of to Plasmodium subpraecox. 5703
**Anopheline mosquitoes**, of the Lanao Plateau, Philippines and status of the local malaria vector. 1652
**Ant**, fungus-culturing behaviour of. 7696
**Ant (primitive attine)**, presence of protease activity in rectal fluid of. 1425
**Antagonism**, by Micromonospora. 2032
**Antagonism (auto- and hetero-)**, and other effects of the excretions of algae in freshwater or thermal water. 7161
**Antagonistic relations**, among fungi from Stavjna river. 2550
**Antamanide**,
  effect of on the permeability of model and biological membranes. 4179
  evidence for a conformational change and non planar amide groups. 6061
  preparation of a single crystal of. 1478
**Antarctic**,
  algae and associated bacteria of. 6518
  ecological note on Rinodina archaeoides in. 5293
  lichenological notes on the flora of. 1340
  occurrence of soil organisms in the Scott Glacier Regions. 1159
**Antarctic marine waters (sub)**, Aplanochytrium kerguelensis from. 2450
**Antarctic Ocean**, microbial productivity in. 5932
**Antarctic upwelling ecosystem**, relative importance of habitat variables in predicting the distribution of phytoplankton of the ecotone of. 4005
**Anther**, of wheat, choline as growth stimulants in responsible for the susceptibility to Fusarium graminearum. 6956
**Antheridia**, of Achlya flagellata, differentiation from androgyny to dicliny in. 15
**Antheridiol**,
  practical synthesis of. 5421
  synthesis of and determination of absolute stereochemistry of. 3396
**Anthracnose**,
  of bean, induced resistance to at a distance from the site of the inducing interaction. 1001
  in cucumber. 6357
  selection for resistance to in Alfalfa populations. 3777
  of sycamore, control of the twig blight stage of. 6910
  of tomato, aerial application of fungicides for control of. 6991
**Anthracnose (leaf)**, of Ficus elastica, experimental studies on. 5746
**Anthracnose (seedling)**, susceptibility of Gossypium to. 3032
**Anthracnose (stem)**, of cowpeas in Nigeria. 2354
**Anthracnose disease development**, in grapevine, role of free amino acids in. 4588
**Anthracnose fungi**, resistance in tomato to. 7655
**Anthracnose resistance**, in $F_2$ population derived from 10 tomato introductions. 7654
**Anthracosis aspect**, of precocious fungic implantation in an Ateles hibridus's lung. 5000
**Anthranilic acid**, effect on growth of blue-green algae. 4230
**Anthraquinone pigments**, in Dermocybe, biosynthesis of. 3416
**Anthraquinone questin**,
  from Chrysosporium. 3429
  conversion of into benzophenone and sulochrin in Aspergillus terreus cultures. 3424
**Anthribidae araeocerus fasciculatus**, ultrastructural study of Epicavus araeoceri from. 1894
**Antibacterial activity**,
  produced by moulds commonly used in oriental food fermentations. 5413
  of sea water, influence of plankton on. 6630
**Antibiotic**, see also Antimicrobial compounds, Antimycotics, Antiprotozoal compounds and specific names of compounds.

**Antibiotic, contd.,**
  in Actinomyces rimosus impaired synthesis of. 402
  from Actinomyces tumemacerans strinmi P-42, production of. 596
  from Cephalosporium acremonium, synthesis of and morphological differentiation. 256
  from Micromonospora. 2032
  from Streptomyces rochei var volubilis var. n. production of. 598
**Antibiotic O-2867,** studies on. 2758
**Antibiotic T-2636,**
  from Streptomyces rochei var volubilis, isolation and chemical properties of. 854
  of Streptomyces rochei var volubilis, new component of. 855
**Antibiotic 18-80 (antifungal),** effect of on nucleic acids of Verticillium dahliae. 6702
**Antibiotic activity,** of Armillaria mellea. 2024
**Antibiotic complex (new),** from Cyathus helenae. 2026
**Antibiotic properties,** of fungi isolated from soil from Baghdad. 4184
**Antibiotic suppression,** in yeast, selection of ribosomal mutants by. 2170
**Antibiotic synthesis,** by Cephalosporium acremonium mutations affecting. 6770
**Antibiotic therapy (broad-spectrum),** and candidiasis prevention in surgery. 1684
**Antibiotic therapy (prophylactic).** 6830
**Antibiotics,**
  action of on Euglena gracilis chloroplasts. 5498
  buccal moniliasis manifestations after the use of drugs other than. 5006
  in dermatology. 6816
  effect on conidiophores and mycelium of some Hyphomycetes. 2069
  effect on lipid synthesis during respiratory development in Saccharomyces cerevisiae. 330
  effect on Sclerotium cepivorum. 1552
  from fungi isolated from forest and marshland soil, production of. 5150
  incorporation of uridine and orotate into chloroplast rRNA of Chlorella after treatment with. 2565
  microflora in cases of chronic highmoritis and sensitivity to. 5021
  securing SPF-mice by decontamination with. 917
**Antibiotics (aminoglycosidic),** from Streptomyces lividus, isolation and characterization of. 850
**Antibiotics (antibacterial),** induction of cytoplasmic petite mutations in yeast. 328
**Antibiotics (antifungal).** 4187
  mycoparasites as producers of. 2033
**Antibiotics (antitumour),** microorganisms as test-objects in screening programmes of. 5553
**Antibiotics (new),** use of mitochondrial mutants of yeasts in the screening of. 4891
**Antibiotics (non-volatile),** of Trichoderma. 263
**Antibiotics (polyene),**
  development of resistance to by Candida. 1549
  Schizosaccharomyces japonicus sensitive to. 909
  studies with on Candida. 4295
  in yeast, new loci for resistance to. 1631
**Antibiotics (volatile),** production by Trichoderma. 265
**Antibodies IgM, IgA and IgG,** in human toxoplasmosis. 4435
**Antibody,**
  against Acanthamoeba castellanii, distribution of in subjects from various Italian regions. 4427
  to Cryptococcus neoformans, charcoal particles agglutination test for detection of. 2208
  to cysts of Pneumocystis carinii in human sera, indirect fluorescent antibody test for the detection of. 7522
  evaluation of dried blood samples as source of in experimental East Coast fever. 6239
  against glutamate dehydrogenase subunits of Neurospora am mutants, immunological study using. 2157
  heterogeneity in the reactivity of with kaolin. 6242
  and immunoglobulin levels to Candida albicans in human cervicovaginal secretions. 6231
  kinetics of appearance of in experimental mouse toxoplasms. 4530
  reduction of the ability of Trypanosoma brucei to react with after long exposure to immune mechanisms in vivo. 4974
  study of the location of cardiolipin in mitochondrial membranes by. 7294
  to Trypanosoma cruzi in Georgia, low prevalence of. 7511
  to trypanosomiasis, patterns in the production of. 1004
**Antibody (anti-candida),** in patients with acute leukaemia, a prospective study. 1000
**Antibody (antifungal),** on lymphocytes and neutrophic granulocytes, detection of. 1003
**Antibody (antinuclear),** false-positive anti-Toxoplasma fluorescent-antibody tests in patients with. 955
**Antibody (anti-toxoplasma haemagglutinating),** in residents and animals in Indonesia, survey of. 994
**Antibody (3-carboxy-4-ferrocenyl phenyl isothiocyanate-labelled),** of Toxoplasma gondii, immuno-electron microscope investigation with. 1584
**Antibody (fluorescent),**
  combined growth of Saccharomycetes and yeast-like fungi studied by. 937
  development of during human malaria by malariatherapy with Plasmodium vivax. 2930
  evolution of in monkeys in the course of infection with Plasmodium cynomolgi bastianellii. 2968

- **Antibody (fluorescent), contd.,**
  - study of in experimental coccidiosis of chicks due to Eimeria tenella. 5603
- **Antibody (fluorescent, agglutinating and precipitating),** to Candida albicans and their immunologlobulin classes, relationship between. 6232
- **Antibody (immunofluorescent),** in mice, study of during malaria. 1045
- **Antibody (intracellular),** presence of in Trichophyton rubrum infection. 4971
- **Antibody (serum IgM fluorescent),** quantitation of in the course of experimental trypanosomiasis. 2862
- **Antibody (specific precipitant),** in South American blastomycosis revealed by immunoelectrophoresis. 1653
- **Antibody (toxoplasma),**
  - assessment of a latex agglutination slide test for. 6805
  - in tuberculous patients, incidence of. 4991
- **Antibody (toxoplasma indirect fluorescent),** and indirect haemagglutination serological survey among hospital patients in Egypt. 4436
- **Antibody (Trypanosoma),** detection of by capillary-tube agglutination test. 363
- **Antibody activity (protective),** maximum level of in rats against Plasmodium berghei. 2869
- **Antibody examination (mycological and fluorescent),** use of N-acetyl-L-cysteine and dithiothreitol to process sputa for. 5533
- **Antibody response,**
  - of CFW mice to Candida albicans, sex differences in: 5597
  - to influenza virus and sheep erythrocytes of mice infected with Plasmodium berghei. 6238
  - to tetanus toxoid in mice infected with malaria parasites, depression of. 7514
- **Antibody response (detectable),** absence of in invasive aspergillosis. 1655
- **Antibody technique (fluorescent),** serological reactions in invasive amoebiasis with. 3614, 3615
- **Antibody test (fluorescent),** for Babesia. 4429
- **Antibody test (indirect fluorescent),** for detection of occult malaria in blood donors. 4432
- **Antibody titre,**
  - following experimental Toxoplasma infections in domestic rabbits. 7520
  - in Trypanosoma gambiense-infected rabbits, effect of hydrocortisone on. 5053
- **Anticoagulant activity,** of aflatoxin $B_1$ and 4-hydroxycoumarin, spp differences in. 5043
- **Antifolic drugs,** treatment of Plasmodium falciparum malaria in Cameroon with single dose of. 2260, 2266
- **Antigen,**
  - of Babesia (soluble and corpuscular), isolation of from blood of dogs. 3619
  - of Dermatophilus congolensis, comparison of strs from comparison animals. 1029
  - from Entamoeba histolytica axenically grown, induction of antiamoebic immunity in hamster with. 3618
  - of Histoplasma capsulatum, conditions for assay of. 995
  - of Histoplasma capsulatum, separation and characterization of. 996
  - specificity of inhibition of haemagglutination reaction in dysentery and its relationship to species of. 4411
  - of Toxoplasma gondii, Tween-ether preparation of for the complement fixation test. 6241
  - from Trypanosoma cruzi amastigotes, comparison with antigen from epimastigotes for the diagnosis of Chagas' disease by indirect immunofluorescence test. 1661
  - of winemaking yeasts, comparative study of by means of agglutination and immunofluorescence. 7507
- **4S Antigen,** of the brucei subgroup trypanosomes, nature of. 4975
- **Antigen (axenic amoebic),** studies on cellular immunity with. 3617
- **Antigen (common),** among Gossypium hirsutum, Fusarium and Verticillium. 4422
- **Antigen (conidiating wild-type),** of Neurospora crassa, immunological comparison of and the antigenic structures of 2 aconidial mutants. 5245
- **Antigen (H and M),** factors influencing production of by Histoplasma capsulatum. 4423, 4424
- **Antigen (inhalation),** specific hyposensitization by. 4972
- **Antigen (malarial),** comparison of from human and Aotus monkey blood infected with Plasmodium falciparum. 4984
- **Antigen (mould),** comparison of environmentally cultured moulds with positive skin tests to. 3645
- **Antigen (multi-species),** of human malaria, preparation of for use in indirect fluorescent antibody test. 7515
- **Antigen (purified Plasmodium berghei),** modifications of the lysosomal enzymes of the macrophages in mice inoculated with. 5694
- **Antigen (serum-soluble),** of malaria. 4986
- **Antigen (strain and group specific partial),** isolation of from trypanosomes of the Brucei group. 4973
- **Antigen (Toxoplasma),** pattern of haemogram immunized with. 2872
- **Antigen (trypanosome),** in rabbits infected with Trypanosoma congolense, tests for antibody and cell mediated hypersensitivity to. 6799
- **Antigen preparations,** of Plasmodium, electron microscopy of. 4987
- **Antigen relationship (common),** occurrence and characterization of between Ustilago maydis and Zea mays. 2205

- **Antigenic activities,** of related glycopeptides from fungal, parasitic and vegetable sources. 5595
- **Antigenic analysis,** of virulent and avirulent Trichomonas gallinae by gel diffusion methods. 6795
- **Antigenic competition,** effect of on the course of infection with Leishmania enriettii in the guinea-pig. 4505
- **Antigenic determinants (common),** as a possible regulator of host-pathogen compatibility. 5599
- **Antigenic extracts (specific),**
  - from Entamoeba histolytica. 2868
  - from Entamoeba histolytica maintained in mixed cultures. 2867
- **Antigenic properties,** of Leishmania adleri parasitic on lizards and pathogenic for mammals. 5222
- **Antigenic relations,** among Trichomonas, Histomonas, Dientamoeba, and Entamoeba, analysis of. 6796, 6797
- **Antigenic stability,** to Trypanosoma rhodesiense in embryonated chicken eggs. 2213
- **Antigenic structure,**
  - of the aetiological agents and immunological diagnosis of respiratory diseases. 1654
  - of Candida albicans, antigen-antibody crossed electrophoresis applied to. 998
  - of Neurospora crassa, malate dehydrogenase activity of and its relation with conidiogenic competence. 5246
- **Antigenic types,** of Trypanosoma congolense after cyclical transmission. 5601
- **Antigenic variation,** in Babesia rodhaini, demonstration by immunization with irradiated parasites. 1007
- **Antilymphocytic serum,**
  - effect of prolonged treatment with on course of infection with BCG and Leishmania enriettii in the guinea pig. 1659
  - effect on Trypanosoma lewisi infection. 422
- **Antimalarial effects,** of tetracycline in man. 2929
- **Antimalarials,** see also specific names of compounds.
  - cardiopulmonary effects of. 5062
  - production of. 920
- **Antimetabolites,** use of mitochondrial mutants of yeast in the screening for. 5511
- **Antimicrobial compounds,** see also Antibiotics.
  - gas-volume measurement system for evaluating effectiveness of. 7700
  - stability of in the soil complex. 1803
- **Antimitotic agents,** and macronuclear division of ciliates. 6127, 6689
- **Antimitotic effect,** of Cryptococcosis in chronic lymphocytic leukaemia. 842
- **Antimonial treatment,** Montenegro's test and search for leishmaniae in the skin of Kala-Azar patients before and after. 948
- **Antimycin A,**
  - effect on respiration and mitochondrial structure of Euglena gracilis Z. 3496
  - sensitivity of Blastocladiella emersonii spores to. 906
- **Antimycin titre,** close correlation of with cytochrome $b_T$ content in mitochondria of chloramphenicol-treated Neurospora crassa. 7399
- **Antimycotics,**
  - relationship between biochemical resistance and microbial degradation of. 2106
  - review of. 6831
- **Antimycotic agent,** use of in vaginal diseases. 4449
- **Antioxidant activity,** of Torula yeast. 4637
- **Antiprotozoal activity,** of scirpene mycotoxins from Fusarium nivale. 6640
- **Antiprotozoal compounds,**
  - effect on rumen volatile fatty acids. 923
  - production of by Penicillium vermiculatum. 7317
- **Antirrhinum majus,** seedborne fungi of. 119
- **Antiserum,** to cytochrome oxidase from baker's yeast, properties and use of. 7228
- **Antiserum (homologous),** effect of on mobility of Leishmania tropica promastigotes in an electric field. 5481
- **Antisporulant chemicals,** effect on dimorphism in Verticillium albo-atrum. 2760
- **Antithamnion floccosum,** from Newfoundland, Olpidiopsis antithamnionis from. 5283
- **Antitumour activity,** of total extract of Amanita phalloides on Ehrlich ascites tumour. 5653
- **Antracol,**
  - in vitro trials for inhibition of Colletotrichum gloeosporioides with. 1550
  - in vitro trials for suppression of Colletotrichum gloeosporioides with. 2756
- **Antrypol,** development of clinically recognizable nervous symptoms in nagana-infected horses treated with subcurative doses of. 5050
- **Antwerp,** 3 cases of primary amoebic meningoencephalitis in. 1043, 1709
- **Anucleate Acetabularia,** circadian rhythms in. 1826
- **Anus,**
  - amoebiasis simulating carcinoma of. 2914
  - examination of in Candida albicans colopathies. 5623
  - mycological studies on eczema of in adults and children. 5005
- **Anus-rectum symptom complexes,** treatment of with Primarektal cream. 3637
- **Aorta,** Aspergillus fumigatus endocarditis of homograft of. 430
- **Aortic intima,** primary pulmonary aspergillosis with high fibrinolytic activity in. 4998
- **Aortic valves,** alloplastic replacement therapeutic problems of prothesis endocarditis. 1020
- **Aphelenchus avenae,** effect of nematode-trapping fungi, media, and temperature on the morphometrics of. 1832
- **Aphid,** experimental infection of with Entomophthora. 3689

**Aphid (cereal),** Entomophthora infection of. 2275

**Aphid (pea),** discharge of conidia of Entomophthora thaxteriana from. 3209

**Aphididae,**
- entomophthorosis epizootics in. 4493
- natural control of populations of by Hymenoptera and Entomophthorales. 6285

**Aphis fabae,** experimental infection of with Entomophthora. 3689

**Aphis forbesi,** experimental infection of with Entomophthora. 3689

**Aphthae (chronic recurrent),** studies on the allergic pathomechanisms of. 2785

**Aplanospore,** of Boergescenia forbesii, culture studies on artificial induction of. 5865

**Apogamic development,** in Bryopsis plumosa. 4697

**Apoplexy,** of stone fruit trees, caused by Phytophthora. 6898

**Apothecia,** of Lobaria laetevirens, structure of. 4688

**Apothecial cells,** of Ascobolus, effect of fixatives on lattice bodies and filament bundles in. 4325

**Apothecial formation,** in Gloeotinia temulenta, prevention of by systemic and protectant fungicides. 7408

**Appendicitis (amoebic).** 3658

**Apple,**
- bitter rot of, epidemiology and symptomatology of. 1109
- changes of volatile carbonyl compounds in, caused by microbial infection. 5797
- control of Nectria decay of by post-harvest chemical dip treatment. 2411
- development of Penicillium fruit rot during storage of. 5798
- evaluation of thiabendazole as post-harvest fungicide for. 2415
- genetic susceptibility to Glomerella leaf blotch in. 2326
- infection of by Nectria galligena. 1187
- Marssonina causing leafspot of. 516
- post-harvest chemical treatment against rot and deterioration in. 540
- relationship between spray combinations of fungicides with calcium nitrate and incidence of bitter pit and fungal diseases of. 918

**Apple (Bramley's seedlings),** formation of benzoic acid in following infection by Nectria galligena. 2328

**Apple (cider),** infection of with apple scab fungus. 2331

**Apple (flowering crab),** scab infections on the twigs of. 5728

**Apple (stored),** post-harvest chemical treatments for control of blue mould of. 3113

**Apple (stored McIntosh),** effects of orchard fungicides on. 5791

**Apple (wounded),** post-harvest benomyl and thiabendazole for control of blue and grey mould in. 5165

**Apple bark,** isolation and properties of biologically active substances from. 5499

**Apple cankers,** in Northern Ireland, seasonal release of spores of Nectria galligena from. 3754

**Apple cultivars,** grafted on various clones and seed stocks, infection by powdery mildew of. 5719

**Apple fruit rot,** caused by Hormiscium. 7705

**Apple orchard,** macro-fungi of in relation to cover crops and NPK fertilizers. 5758

**Apple scab,**
- control of in Poland with use of new fungicides. 2330
- correlation between intensity and frequency in. 5078

**Apple seedlings,** influence of powdery mildew infections on $^{35}S$ and $^{45}Ca$ accumulations in leaves of. 1112

**Apple trees,** neck rot of. 3063

**Appressoria (mature),** of Erysiphe graminis on wheat and barley, cuticle layer as determinin factor for formation of. 7112

**Apricot,** structural properties of gum polysaccharides from. 6360

**Apricot (canned),** texture changes in following infection of the fresh fruit with Rhizopus stolonifer. 5158

**Apricot pathogen,** associated with Caenothus limb dieback in California. 2325

**Aquaculture feed,** algal culture as. 6399

**Aquatic environment,** microbial activity in. 5915

**Aquatic primary consumers,** radiotracer technique involving $^{14}C$ and $^{51}Cr$ for estimating the assimilation efficiencies of. 4312

**Arabia (Saudi),** major diseases of cultivated crops in the Central Province of. 4612

**α-L-Arabinofuranosidase,** from Fusarium oxysporum f. sp. lycopersici. 6008

**α-L-Arabinofuranosidase (purified),** from Corticium rolfsii, properties of. 2617

**D-Arabinosone,** inactivation of yeast alcohol dehydrogenase by. 6679

**Arabinoxylan,** activities of thermophilous fungi from barley kernels against. 4161

**Arabitol,** in Schizophyllum commune, control of formation of during development. 871

**Arachis hypogea,**
- efficacy of fungicides in controlling collar rot of. 6354
- rust on in India. 5732

**Araeocerus fasciculatus,** Epicavus araeceri as parasite of. 6308

**Aragonite crystals,** within codiacean algae. 3129

**Araldialkyltriazenes,** in the mouse, metabolic activation of. 4382

**Arasan,** evaluation of against foot-rot of wheat. 2366

**Arbutin,** hydrolysis of by some fungi. 5396

- **Arctic lichens (American),** distribution patterns of. 5930
- **Ardath Shale,** benthonic foraminifera of. 7191
- **Argentina,**
  - new order of brown algae to. 6434
  - soil algae of Buenos Aires province in. 3245
  - soil algae in Buenos Aires in. 6995
  - soil microflora from. 5146
  - taxonomy of Chlorosarcinaceae from. 3865
  - testate amoebae of Buenos Aires in. 678
- **Argentina (Northwest),** effect of adding nitrogen and vitamins on alcoholic fermentation of molasses from sugar factories in. 2404
- **Argentine littoral,** phytogeographical outline of the marine vegetation in. 4015
- **Argentophilic structures,**
  - in peritrich ciliates, comparative study of. 3948
  - of Tetrahymena, pattern of replication of. 1937
- **Arginase,**
  - from Entamoeba histolytica in axenic culture, activity of. 3341
  - in Saccharomyces cerevisiae, interaction with ornithine carbamoyltransferase. 168
- **Arginase activity,** regulation of by intermediates of the arginine biosynthetic pathway in Neurospora crassa. 5979
- **Arginase levels,** in Saccharomyces cerevisiae, regulation of by urea and intermediates of the Krebs-Henseleit cycle. 1982
- **Arginine,** blue-green algal response to. 1586
- **$^{14}$C-Arginine,** comparative study of the metabolism of in the stalk, sterile part of the cap and hymenium of the fruiting bodies of Agaricus bisporus. 6619
- **Arginine biosynthetic pathway,**
  - in Neurospora crassa, regulation of arginase activity by intermediates of. 5979
  - of Saccharomyces cerevisiae, regulation of the carbamoylphosphate synthetase of. 5995
- **Arginine metabolism,** in Chlamydomonas reinhardtii. 6613
- **Arginine transport,** in cultured Trypanosoma cruzi. 2004
- **Aristichthys nobilis,** protozoan diseases of the fry of. 1079
- **Armandia brevis,** development of Pleistophora in the eggs of. 106
- **Aromatic biosynthetic and catabolic enzymes,** in Ustilago. 7237
- **Aromatic compound,** metabolism by Fusarium oxysporum. 697
- **Aromatic compound (major),** of Trichoderma viride, characterization of. 4224
- **Aromatic compounds,** utilization of by yeasts. 962
- **Aromatic plants,** from South India, diseases and pests of. 4603
- **Aromatic/tryptophan pathway,** of Neurospora crassa, purification of 2 multienzyme complexes in. 6589
- **Arrhenatherum elatius,** studies on in vitro cultivation of Puccinia coronata from. 2119
- **Arsenate,** absorption and reduction by Chlorellae. 861
- **Arsenic,** treatment of amebiasis with. 2911
- **Arsenic compounds,** variation in toxicity of to microorganisms and suppression of inhibitory effects by phosphate. 3501
- **Arsenicals,** chemotherapeutic susceptibility of Trypanosoma evansi to. 4306
- **Arsenite,** reduction of arsenate in Chlorellae to. 861
- **Artemia salina,** comparative investigations on the toxicity of mycotoxins to the larvae of. 7322
- **Arterial disease,** foot dermatophytes in some population groups and people with. 3599
- **Arterial venous shunt occlusions,** use of brinase from Aspergillus oryzae in cases of. 2880
- **Arthritis,** in rats, effect on ergotamine induced tail gangrene. 249
- **Arthritis (neonatal),**
  - and candidal osteomyelitis. 6819
  - observations and review. 7530
- **Arthritis (sporotrichial),** case of mimicking gout. 2900
- **Arthropoda,**
  - disease transmission by. 6785
  - spread and maintenance of infections in. 4405
- **Arthropoda (Antarctic),** food habits of. 537
- **Artichokes,** leaf spots on. 3025
- **Articular ossification (para-),** as complication of African trypanosomiasis. 1707
- **'Artifacts' (myelin-like),** in Blastocladiella emersonii zoospores. 7062
- **Arvicanthis niloticus,** transmission of Eimeria chinchillae to. 479
- **Aryl-aldehyde: NADP oxidoreductase,** from Neurospora crassa, stoichiometric studies on. 729
- **Arylsulphatase,** from Aspergillus oryzae, purification and properties of. 749
- **Arylsulphataseless mutants,** of Neurospora, reversion of. 2161
- **Aryltin compounds,** use as potato blight fungicides. 2749
- **Asclepias syriaca,** ultrastructural study of Phytomonas elmassiani from. 3922
- **Ascocarp,**
  - in Claviceps purpurea, prevention of formation of by fungicides applied over sclerotia at the soil surface. 7398
  - of Mycosphaerella pistaciarum, development and structure of. 5249
  - in Rhytisma acerinum and R. punctatum, development of. 85
  - in Sporomia australis, development of. 6500
- **Ascogonia,** in Neurospora, temperature induced synchronous differentiation of. 3217
- **Ascorbic acid,**
  - change in tomato fruits after fungal infection. 509

- **Ascorbic acid, contd.,**
  - effect on growth and spore liberation of Enteromorpha prolifera v. tubulosa. 4236
  - occurrence of among yeasts. 6652
- **Ascospore,**
  - of Byssochlamys fulva, heat activation of. 7364
  - of Ceriosporopsis halima, development and fine structure of. 5243
  - of Chaetomium thermophile var. coprophile, effects of nutrients, temperature and relative humidity on germination and longevity of. 2061, 2718
  - in Eutypella parasitica, discharge and germination of. 79
  - of Hansenula holstii, germination of. 1273
  - of Leptosphaerulina australis, discharge and ultrastructure of. 1223
  - in Podosphaera leucotricha, effect of atmospheric conditions on. 84
  - of Saccharomyces cerevisiae, effect of phase-stage of preculture cells on formation of. 627
  - in Saccharomyces cerevisiae, morphogenesis of. 3219
  - of Venturia inaequalis, comparison of fungicides for suppression of production of. 4886
  - in yeasts, simple method for induction of formation of. 3536
- **Ascospore discharge,** by Erysiphe trina. 7113
- **Ascospore dispersion,** in Ceratocystis and Europhium clavigerum in conifer resin. 6720
- **Ascospore forms,** from the Chaco Region of Argentina. 5146
- **Ascospore wall formation,** in Sordaria fimicola, fine structure of. 2496
- **Ascosporogenesis,**
  - in Hansenula wingei, nuclear segregation and envelopment during. 623
  - in Nematospora coryli, fine structure of. 3216
- **Ascus,**
  - of Achaetomium, cytology of. 1218
  - in Achaetomium strumarium, cytology of. 3149
  - in Hypoxylon microplacum, production of. 80
  - of Leptosphaerulina australis, ultrastructure of. 1223
  - of Lobaria laetevirens, structure of. 4688
- **Ascus (anomalous),** of Coniochaeta malacotricha. 3151
- **Ascus development,** in Lophodermium pinastri. 2492
- **Asexual stage,**
  - in eimerian lesions of a buffalo calf. 5255
  - of Plasmodium tropiduri in Tropidurus torquatus. 490
- **Ash (total),** analysis of in Cystoseira stricta. 3358
- **Asia,** distribution of leishmaniasis in. 1644
- **Asia (tropical South-east),** toxigenic moulds in foods in. 4438
- **Asparagus,**
  - 3 diseases of. 3789
  - fusariosis of. 3779
  - Fusarium root rot on. 6958
- **Aspartate aminotransferase,** in Leishmania tarentolae. 187
- **L-Aspartic acid,**
  - in the culture of Leishmania tarentolae. 1600
  - in Neurospora crassa, active transport of. 798
- **DL-Aspartic + L-leucine + DL-tryptophan + L-glutamic acids,** utilization by storage rot fungi. 1597
- **Aspen,**
  - aerially applied antibiotics failing to control hypoxylon canker in. 1110
  - Ceratocystis canker of. 4543
  - epiphytic lichens of. 126
- **Aspen canker,** insect transmission of Ceratocystis associated with. 6327
- **Aspergillic acid,** new analogues of derived from methionine. 5439
- **Aspergilloma,**
  - of blastomycotic cavities. 4440
  - grafted on a foreign body granuloma of the lung in a joiner. 5610
  - of the lungs. 1675
  - of the pleura. 1676
  - of sinus. 5614
- **Aspergilloma (broncho-pulmonary),** results of surgical management of 26 cases of. 5611
- **Aspergilloma (endobronchial),** disguising bronchogenous carcinoma. 1014
- **Aspergilloma (multiple pulmonary),** in acute leukaemia. 2227
- **Aspergilloma (pleuro-pulmonary),** local treatment of. 5612
- **Aspergilloma (pulmonary),**
  - aetiology, course and treatment of. 5608
  - in a child treated with clotrimazole. 1016
  - treatment of with corticosteroids. 5606
  - treatment of with transparietal injections of Amphotericin B. 4999
- **Aspergillopeptidase,** terminal residues of. 751
- **Aspergillosis,**
  - in brooder house chicks. 6287
  - discussion of. 2228
  - epidemiology and microbiology of. 1635
  - immunodiffusion test in serodiagnosis of. 4420
  - immunofluorescent studies in patients with. 441
  - occurrence of in Sabah Hospital, Kuwait. 2240
  - presenting as spinal cord compression. 4443
  - surgical management of in immunosuppressed patients. 2877
- **Aspergillosis (allergic bronchopulmonary),** 2 case of and evaluation of tests for hypersensitivit to. 5002
- **Aspergillosis (avian),** analysis of factors in. 1634
- **Aspergillosis (brain),** in goose and turkey. 464
- **Aspergillosis (broncho-pulmonary).** 1673
- **Aspergillosis (chicken),** brain lesions in. 2276
- **Aspergillosis (disseminated),** skin manifestations in. 2229

- **spergillosis (intra-cavity),** association of with active tuberculosis. 7526
- **spergillosis (invasive),**
  - absence of detectable antibody response in. 1655
  - medical treatment of tuberculosed left pyothorax fistulated into the bronchi followed by. 3635
- **spergillosis (pleuro-pulmonary),** medical therapy of. 7525
- **spergillosis (primary pulmonary),** with high fibrinolytic activity in aortic intima. 4998
- **spergillosis (pulmonary),** 6248
  - with asteroid bodies and a disease similar to farmer's lung. 6288
  - caused by Aspergillus flavus. 3628
  - in childhood, case report and discussion. 6810
  - diagnosis of by bronchial brushing technique. 3544
  - discussion of. 6811
  - problems raised by. 5609
- **spergillosis (respiratory),** clinical and therapeutical pictures of. 5605
- **spergin,** effect of light and temperature on production of. 885
- **sperginon,** produced by Aspergillus. 7308
- **spiration (transtracheal),** in the diagnosis of lower respiratory tract infections. 5011
- **ssay (algal),** 7434
  - evaluation of. 6714
  - method of for nutrient parameters in water. 4903
- **ssay (microbial),** of coral reefs. 649
- **ssay (quantitative),** of glucose-6-phosphate dehydrogenase at cellular level. 7258
- **ssay (routine biological),** Quantimet 720P for. 5548
- **ssimilation rate (net),** of lichen thalli, relationship with moisture content and ecological significance. 4747
- **steroid bodies,** lung aspergillosis with. 6288
- **steroid formation,** around parasitic spores in the lungs of laboratory mice, appearance of. 6865
- **sterric acid,** from Chrysosporium. 3429
- **sthma,**
  - association of with Aspergillus and other fungi. 2881
  - in children in Carpathian basin, relationship between pollen and fungal spores demonstrable in the air and meteorological factors to. 4403
  - relationship to extracts of Candida albicans. 999
- **sthma (New Orleans),** relationship between a hospital asthma admission rates, pollen and fungal spore counts, and aerometric sampling data. 410
- **sthmatic manifestations,** allergy to precipitins due to Aspergillus fumigatus with. 3630
- **sulam,** effect on Chlorella pyrenoidosa growth. 5496
- **tlantic coast,** of Virginia, biology of Porterinema fluviatile on. 4721
- **tlantic fish (North),** Entamoeba nezumia and other parasites from. 3718
- **Atlantic Ocean,**
  - Acantharia in. 2554
  - Paleochimatic reconstructions based on quaternary planktonic Foraminifera of. 3254
  - relationships of chlorophyll maxima to density structure of. 5275
- **Atlantic Ocean (North),**
  - artificial key to Phyllophoraceae in. 3885
  - distribution of phytoplankton at the western margin of. 2532
  - studies on pigmented microorganisms from. 4013
- **Atlantic Ocean (North and Northwest),** chemical bases and mechanisms of spring phytoplankton blooming in. 7173
- **Atlantic Ocean (South),** phytoplankton of. 3251
- **Atlantic Ocean (tropical),** algae from. 3259
- **Atlantic Ocean (western tropical),** plankton of as related to specific features of the hydrological regime. 5939
- **Atmosphere,** Urticaria and Quincke's oedema due to moulds in. 4404
- **Atmosphere (controlled),** effect on growth of mould on synthetic media and fruit. 1192
- **Atmosphere (various storage),** effect of on the occurrence of rots and blemishes on Shamouti oranges. 6409
- **Atmosphere storage conditions (controlled),** influence on cabbage post-harvest decay fungi. 3106
- **Atoll (Rangiroa),** observations on the hydrology and plankton of the approaches and channel zone of. 4725
- **Atractopharien system,** of the Amoebophryidae, intervention in mitosis by. 1883
- **Atrazine,**
  - effect on growth and sclerotia production of Sclerotium rolfsii. 915
  - effect on soil microflora. 5152
- **Attachment,** inhibition of by autogenous substances in Hartmannella. 6112
- **Attachment organ,** of eccrinales trichomycetes, ultrastructure of. 3891
- **Attractant,** released by eggs of Fucus serratus, detection and isolation of. 5432
- **Auditory meatus (external),** fungal diseases implicating the skin of. 4442
- **Aureofungin,**
  - effect on spore germination in Alternaria citri. 1548
  - in vitro assay against some rust fungi. 910
- **Aureofungin spray,** effect on control of fungal diseases and Aspergillus flavus infestations in peanuts. 1776
- **Austamide,** from Aspergillus ustus, a new toxic metabolite. 254
- **Australia,**
  - bacteria and Actinomycetes antagonistic to fungal root pathogens in soils in. 2397
  - free kinetosomes in flagellates of. 6473

- **Australia, contd.,**
  - invasion of native forests by Phytophthora cinnamomi in. 2979
  - late paleocene in the Otway basin in. 3290
  - leaf-inhabiting fungi from. 1951
  - Leptosphaeria of grass in. 5722
  - occurrence of haplosporidan in Sydney rock oysters from Queensland in. 7601
  - Parmelia jamesii from. 6471
  - prokaryotic algae associated with proterozoic stromatolites in. 7144
  - sporulation pathogenicity of wheat rust from. 2499
  - sunflower diseases in. 5734
  - undescribed Ustilago on Cyperus lucidus in. 5840
- **Australia (north-eastern),** uredospore movement and observations on the epidemiology of wheat rusts in. 6345
- **Australia (Queensland),**
  - Eimeria in pigs in. 1086
  - evaluation of recent tick fever outbreaks in. 1076
  - maize diseases in. 2990
- **Australia (South),**
  - Phytophthora cinnamomi on ornamentals in. 7619
  - sublittoral ecology of West Island in. 3250, 3252
- **Australian isolates,** of Verticillium albo-atrum in Gossypium hirsutum, virulence of compared with American isolates. 2380
- **Austria,**
  - dynamics and productivity of phytoplankton and pelagic bacteria in a high mountain lake in. 7156
  - environmental factors influencing outbreak of Scleroderris lagerbergii in. 6920
  - Gloeodendron and Chrysochaete from Vienna in. 6521
  - profundal testacean fauna of the older and younger sediments of Lake Constance in. 5298
- **Austria (lower),** rare diatoms from ponds in wooded areas in. 2517
- **Austrian Tyrol,** soil living Testacea in. 4630
- **Austrian woodland region (lower),** comparative studies of brown-water ponds in. 3255
- **Autoecious Puccinia,** on Heliantheae in North America, additions to. 7119
- **Autogamy,** in Euplotes woodruffi. 107
- **Autogenous substances,** inhibition of movement, attachment and cytokinesis by in Hartmannella. 6112
- **Autography (radio-),** localization and characterization of chromatin in the interphase nucleus of Amoeba proteus with. 3183
- **Autoimmunity producing disease,** chronic amoebic colitis and allergic reactivity including. 6276
- **Autolysis,**
  - of Aspergillus oryzae, mode of action of crystalline nuclease O in. 750
  - of Aspergillus oryzae, studies on. 6006
  - in baker's yeast, p-toluenethiol as initiator of. 3458
  - of cell wall from Chlamydomonas reinhardtii gametes. 608
  - of Coprinus, function of hydrolytic enzyme in. 1405
  - of Saccharomyces cerevisiae, occurrence of sulfhydryl compounds during. 4841
- **Autopsy specimens,** from Thai children with acute disease of unkown aetiology, aflatoxins in. 2225
- **Autosynchrony,** long term persistence of free-running circadian rhythms of cell division in Euglena and implication of. 4906
- **Autotrophic Euglena,** circadian rhythm changes in induced by organic carbon sources. 6086
- **Autotrophic flagellates (smallest),** model organism from. 5549
- **Autotrophic microorganisms,** ribulose diphosphate carboxylase from. 5322
- **Autotrophic mutant (obligate),** of Chlamydomonas dysosmos, biochemical elucidation of. 5568
- **Autotrophic organisms,** growth of in mixed culture with heterotrophic organisms. 6519
- **Autumn attack,** of mildew, effect of on growth and development of winter barley. 6330
- **Auvernier neolithic site,** diatoms of. 2514
- **Averufin,** isolation of from Aspergillus parasiticus mutant impaired in aflatoxin biosynthesis. 5417
- **Auxin,**
  - effect on the increase in material of Amanita pantherina mycelial culture. 4251
  - response of yeast cells to in relation to cell age. 2065
- **Auxins (indole),** in Saccharomyces cerevisiae and Aspergillus niger mutants. 5422
- **Auxotrophic mutants,**
  - of Aspergillus nidulans, differential effects of nystatin on growth of. 333
  - in Penicillium baarnense, adaptation and improvement in technique for selections of. 5539
- **Auxotrophic mutants** (induced), of Candida scottii, frequency of formation of. 6685
- **Auxotrophic mutants (pyramidine),** in yeast, direct selective techniques for isolation of. 4330
- **Auxotrophy,** relation to taxonomy of Chlorella. 564
- **Avocado fruit,** latent infection in due to Colletotrichum gloeosporioides. 7657
- **Avocado fruit constituents,** utilization in vitro of by Collectotrichum gloeosporioides. 6750
- **Avena sativa,** reciprocal effects of with Aspergillaceae in mixed culture. 1781
- **Avena sterilis,** oat crown rust race differentiation in. 394
- **Averufin,** of Aspergillus versicolor, structure of. 873
- **Aviaries (zoo),** survey of for the presence of Histoplasma capsulatum and Cryptococcus

- **Aviaries (zoo), contd.,**
  - neoformans. 1636
- **Avirulence,**
  - in Nectria haematococca var. cucurbitae, independent inheritance of. 964
  - of Trypanosoma cruzi PF str, behaviour in the invertebrate host. 1073
- **Axostyle,** of the protozoan, effect of fixation on the wave propagation of. 7379
- **3-Azaguanine,**
  - effect on cellular division of Chlorella pyrenoidosa. 3440
  - mutants of Eremothecium ashbyii resistant to. 6184
- **Azalea,** comparative pathogenicity of Calonectria theae and Cylindrocladium scoparium to leaves and roots of. 7629
- **Azalea leaf traps,** isolation of Cylindrocladium from infected azalea stems with. 7683
- **Azalomycin F,** induction of yeast-like growth of Paecilomyces viridis by. 5515
- **Azaphilones,** relative stereochemistry of. 4210
- **Azathioprin,** effect on immunoreactivity against Candida albicans. 2859
- **Azauracil,** influence of on endogenous cycle of Eimeria acervulina. 4308
- **5-Azauracil,** indirect action of against Pythium debaryanum in the rhizosphere of cucumber seedlings. 6901
- **5-Azauracil/6-azauridine,** mechanism of resistance of Cladosporium cucumerinum against. 5512
- **Azepines (5-substituted 10, 11-dihydrodibenz b, f),** synthesis of. 3512
- **Azet,** use of for seed treatments. 3071
- **Azirinomycin,** microbial production and biological characteristics of. 849
- **Azotobacter chroococcum,** growth behaviour of in soil in association with some soil microorganisms. 6382
- **Azygospores,** of Hydrodictyon reticulatum, development of. 6487

**B**

- **B-chain (oxidized),** of insulin, hydrolysis of peptide bonds of by Endothia parasitica protease. 4097
- **Bab b 5097,** therapeutic evaluation of. 1728
- **Babecides,** experimental diamidine poisoning due to. 2292
- **Babesiasis,**
  - of the dog. 2291
  - in dogs, chemotherapy of. 6881
- **Babesiasis (bovine),**
  - epizootiological factors in the control of. 6880
  - infection rates in Boophilus microplus. 417
- **Babesiasis (equine),** chemotherapy of. 3720
- **Babesicidal treatment,** of previous infection in calves, immunity to Babesia bigemina after. 5682
- **Bacillus,** from Nigerian soils, antimicrobial activity of. 3096
- **Bacillus (gram-negative),** survival of in hexachlorophene preparations. 2099
- **Bacillus megaterium,** effect of mycotoxins and coumarins on growth of. 4192
- **Bacteria,**
  - antagonism by to fungal root pathogens in Australian soils. 2397
  - association of with farthest south algae. 6518
  - on beetroot leaves, effect of plant age on inhibition of Botrytis cinerea spores by. 6101
  - cellular dependence of Amoeba on. 5297
  - effect of Micromonospora on. 2032
  - effect on plant resistance to pathogenic fungi. 311
  - effect of on sporangial production of Pilobolus. 7465
  - fine structural studies of digestion of by Entodinium caudatum. 7475
  - of fungi. 7080
  - and fungi within the lesser mealworm collected from poultry brooder houses. 6286
  - growth of from temperate and antarctic soils in relation to temperature. 1319
  - induction of sporangia in Phytophthora cinnamomi by. 3453
  - measurement of mobility rate of by cultivation with Rhizopus nigricans. 930
  - metabolism of by Entodinium simplex. 5567
  - in the standing stock in Lake Balaton and in the highly eutrophic Lake Belso, weekly changes of. 1292
  - from Upper Klamath Lake sediment, solubilization of inorganic phosphates by. 6744
- **Bacteria (budding and stalked),** 2 identical genera of. 5846
- **Bacteria (endosymbiotic),** occurrence of in marine dinoflagellates. 2522, 3120
- **Bacteria (entomogenous),**
  - laboratory tests with and Beauveria bassiana against the little house fly. 6861
  - susceptibility of the eye gnat to. 5659
- **Bacteria (epizoic),** and mode of nutrition of Kentrophoros fistulosum. 4367
- **Bacteria (freshwater),** studies on. 5282
- **Bacteria (helically-lobed soil),** from fungal spores. 3803
- **Bacteria (ingested),** incorporation of DNA precursors from into macronuclear DNA of Paramecium aurelia. 382

- **Bacteria (intestinal),** influence on orally administered Candida albicans in germ-free and conventional mice. 1726
- **Bacteria (lithotrophic),** as food source. 6397
- **Bacteria (methane oxidizing),** eutrophication implications of interactions between naturally occurring particulates and. 6515, 7163
- **Bacteria (neustonic),** in surface microlayers of the equatorial waters. 4729
- **Bacteria (pathogenic),**
  - effect of fungal metabolites and coriander seeds on the growth of. 7413
  - in the Stavuja river, antagonistic relationship of some fungi towards. 3389
- **Bacteria (pelagic),** dynamics and productivity of in a high mountain lake. 7156
- **Bacteria (photosynthetic),**
  - chlorophyll proteins and reaction centre preparations from. 1490
  - of Lake Kononjer. 5266
  - serological investigations on thylakoids of. 5592
  - vertical distribution of in Lake Kononjer. 641
- **Bacteria (rickettsia-like),** as parasites of a myxomycete. 6423
- **Bacteria (rumen),** effect of trifluralin on. 2737
- **Bacteria (sourdough),** factors affecting organic acid production by. 7008
- **Bacteria (symbiotic),** in Pelomyxa palustris, role of in respiration and proliferation of the animal. 1287
- **Bacteria-free and conventional chicken,** Eimeria tenella in. 5687
- **Bacterial-algal symbiosis,** for removal and conservation of wastewater nutrients. 2418
- **Bacterial community (size-fractionated),** dissolved organic carbon utilization in. 7464
- **Bacterial contamination,**
  - of brewers' yeast, detection of. 2113
  - of external medicaments. 5163
- **Bacterial disc unit,** operational characteristics of. 4654
- **Bacterial diseases,**
  - resistance of cabbage to. 6351
  - study of original material and resistance of lucerne to. 6959
- **Bacterial endosymbiosis,** in Paramecium aurelia. 5760
- **Bacterial flora,**
  - in the alimentary tract of chickens infected with Eimeria brunetti and chickens immunized with Eimeria maxima and cross-infected with Eimeria brunetti. 5057
  - obtained by tracheal puncture in infectious pneumopathies, study of. 4441
  - role of in development of chronic bronchitis in bakers. 3598
- **Bacterial growth,**
  - on kombu, studies on. 3822
  - prevention of and local infection in burn wounds. 7554
- **Bacterial luminescence probe (sensitive),** of $O_2$ i
  biochemical systems. 6156
- **Bacterial microflora,** in Chlorella vulgaris culture. 1817
- **Bacterial and mycotic infection,** of the brain. 287
- **Bacterial nodules,** in Crotolaria vespertilia. 180
- **Bacterial pathogens,**
  - of freshwater blue-green algae. 1825
  - induction of resistance to in plants. 527
- **Bacterial population,** after caecal coccidiosis of young chickens, changes in. 1082
- **Bacterial seed-piece decay,** and blackleg of potato. 7665
- **Bacterial vaccine (standard),** effect of on infection with Toxoplasma gondii in mice. 7518, 7519
- **Bacterial wilt** (Goss), importance of. 6324
- **Bacterial and yeast preparations,** evaluation of fo
  swine growing rations. 3105
- **Bactericidal agent,** use of in vaginal diseases. 44
- **Bacteriological examination,** of root canals. 4742
- **Bacteriological studies,** in Crohn's disease. 4458
- **Bacteriolytic enzyme,**
  - from Acanthamoeba castellanii, purification and properties of. 6020
  - from Acanthamoeba castellanii, enzymatic mode of action of. 6021
- **Bactrim**$^R$, antagonistic effects of to phalloidin and $\alpha$-amanitin. 2939
- **Bag (plastic),** growth of mushrooms in. 5777
- **Bagassosis,** caused by Thermoactinomyces sacchari. 47
- **Baghdad,** antibiotic properties of fungi isolated from soil from. 4184
- **Bahamas,** preliminary study of fresh water fungi from. 3264
- **Bahia Fosforescente,** bioluminescence and phytoplankton successions in. 2525
- **Bajra,**
  - control of diseases of. 4608
  - new record of Cercospora leaf spot in in India
    507
- **Baker,** role of bacterial and fungal flora in development of chronic bronchitis in. 3598
- **Balaenophilus unisetus,** Conotrichs of. 1350
- **Ball (marine algal),** at La Parguera, Puerto Ric
  7099
- **Ballistospore discharge,** mechanism of. 5289
- **Baltic (Southern),** contribution to the knowledge of the algal flora of the Mecklenburg coast
  of. 1309
- **Banana,**
  - control of Fusarium moniliforme causing rot
    of. 3041
  - effect of climatic conditions on development a
    treatment of Cercospora in. 891
  - susceptibility of to fungus leaf diseases in Fiji. 6915

- **anana leaf spot,** proposed international scale for estimation of intensity of. 933
- **anana plantations,** problem of Armillaria mellea in. 4550
- **angladesh,** contributions to the knowledge of the desmids of. 1302
- **arban,**
  - effect on Chlorella pyrenoidosa growth. 5496
  - metabolism of by soil Penicillium. 5149
- **arberry,** effect of heat treatment of soil on Verticillium wilt infection of. 3094
- **arbiturate,**
  - effect on secondary metabolism in Trichoderma viride. 264
  - trisporic acid production by Blakeslea trispora and its promotion by. 3395
- **arbus ambassis,** Eimeria ambassi from. 6310
- **arents Sea,** primary production and chlorophyll in the near-shore zone of. 7330
- **ark,**
  - of apple, isolation and properties of biologically active substances from. 5499
  - in Oklahoma, factors influencing frequency of lichens on. 669
  - of spruce root, infection and deterioration of by Fomes annosus. 6929
- **ark disease,**
  - of beech, in northeastern USA. 7632
  - of beech, in Pennsylvania. 512
- **arley,**
  - action of fungicides on fungi occurring on. 6366
  - assay of fungal mycelium in grains of. 943
  - brown rust of. 7642
  - cuticle layer as determining factor for formation of mature appressoria of Erysiphe graminis on. 7112
  - determination of cytokinins in after attack by powdery mildew. 6333
  - effect of vitavax seed treatment and loose smut infection on yield of. 2345
  - of Ethiopia, immunologic characterization of. 5737
  - fungicides for the control of Helminthosporium stripe of. 5112
  - genes at the Ml-a locus for resistance to Erysiphe graminis f. sp. hordei in. 1107
  - infected by Erysiphe graminis, effect of dinocap spray on capacity to bind water in. 2995
  - inheritance of resistance to Puccinia hordei in. 1623
  - in leaf culture, cultivation method for powdery mildew of. 4915
  - losses from diseases of in Manitoba and Saskatchewan in 1970. 3075
  - Pyricularia on. 4596
  - recombination at the Ml-a locus in conditioning resistance to Erysiphe graminis f. sp. hordei. 6909
  - resistance of to establishment of subcuticular mycelia by Rhynchosporium secalis. 1782
  - resistance to stripe disease in Uttar Pradesh. 528
  - result of seed treatment of in South Carolina. 3016
  - stem rust of in Canada. 6933
  - technique for cryogenic storage of the Septoria leaf blotch pathogen of. 945
- **Barley (Afghanistan spring),** resistance to main diseases of. 5736
- **Barley (hulless),** reaction of genetic stocks of to yellow rust. 6939
- **Barley (male sterile),** biology and control of ergot on. 1105
- **Barley (resistant),** infected with powdery mildew, changes of leaf pigments in. 6332
- **Barley (spring),**
  - with race specific mildew resistance. 4564
  - surveys of foliar diseases of in England and Wales. 5080
- **Barley (winter),**
  - effect of autumn attack of mildew on the growth and development of. 6330
  - effect of benomyl and the growth regulator CCC on eyespot disease of. 2352
  - resistance to Helminthosporium stripe in. 3053
- **Barley diet,** effects of rumen ciliate protozoa in cattle given restricted amounts of. 4750
- **Barley field,** qualitative and quantitative study of soil mycoflora of. 3817
- **Barley kernels,** activities of thermophilous fungi from against arabinoxylan and carboxymethyl cellulose. 4161
- **Barley leaf,**
  - infected with Erysiphe graminis f. sp. hordei, multiple molecular forms of enzymes in. 6908
  - infected with powdery mildew, decrease in chloroplast content of. 3759
  - ribosome metabolism in mildew-infected. 1106
- **Barley leaf rust,** sensitivity to external environment and physiologic specialization. 2340
- **Barley storage (moist),** microbiology of in unsealed silos. 3840
- **Barley yeast,** of different generations, nitrogen and vitamin composition of and their physiological activity. 5373
- **Barrier components,** acting against osmotic water flow in Nitella. 7718
- **BAS 3191,** metabolism of by Rhizopus japonicus and related fungi. 3498
- **BAS 3201 F,** control of powdery mildew of greenhouse strawberries with. 5088
- **Basal bodies,**
  - in Naegleria. 2474
  - of Nassula, development and deployment of. 1934
- **Basal movement,** of locomotion in Amoeba proteus. 1201
- **Base composition,** of Aspergillus niger and its mutants. 6573

**Base composition (thermal-denaturation-derived),** of DNAs from Entamoeba, comparison of genome sizes and. 1632

**Basement membrane,** in hepatic coccidiosis of the rabbit. 3730

**Basidiocarp,** of Bondarzewiaceae, hyphal systems of. 2464

**Basidiocarp (unusually large),** Amanita chlorinosma. 5921

**Basidiocarp development,**
  in Calocera cornea. 4704
  in Coprinus macrorhizus. 7385
  in Gloeophyllum saepiarium in the natural environment. 5892

**Basidiospore,**
  in Agaricales, morphology of. 579
  of Agaricus, intracellular appearance of mushroom virus in. 3079
  from Coprinus lagopus, ultrastructure of. 30
  Cronartium comandrae on rocks and vegetation, germination of. 4705
  discharge of in gymnosporangium. 93
  of Lycoperdon perlatum, surface structures and unidentified organelles of. 6458
  in Ravenelia hobsonii, unique mode of multiplication of. 5893
  from Strobilomycetaceae spp., ultrastructure of. 27

**Basidiospore (quiescent and germinated),** of Coprinus lagopus, ultrastructure of. 3220

**Basidiospore germination,** in Schizophyllum commune, isotopic studies of carbohydrate metabolism during. 5391

**Basidiospore release,** by Fomes annosus, interpretation of microclimate data in relation to. 4855

**Basidium (meiotic),** of Coprinus radiatus, light and electron microscopic studies of. 2497

**Basidium (postmeiotic),** of Coprinus lagopus, Golgi apparatus in. 5206

**Basiliscus basiliscus,** malarial parasites of. 4054

**Basin aleoflora,** effect of artificial aeration of water on. 3260

**Bassiana,** laboratory tests with entomogenous bacteria and Beauveria bassiana against. 6861

**Bassiquy,** diminishing fungal flora of. 1326

**Basswood cuttings,** innoculation with ectomycorrhizal fungi. 356

**Bat,** histoplasmosis in. 5662

**Batracians,** action of temperature on the commensal ciliates of the digestive tube of. 2081

**BAY 79770,** performance of against wheat powdery mildew in the field. 6906

**BAY b 5097,**
  in vitro sensitivity of yeasts to. 2753
  local treatment of different dermatomycoses with. 6266
  treatment of lung disease caused by Candida in the sputum by. 1685
  treatment of rapid invasive aspergillosis with. 3635

**Bayer 22555,** evaluation of for control of red core of strawberry. 5070

**BCG,** effect of prolonged treatment with antilymphocytic serum on course of infection with in the guinea pig. 1659

**Bdellovibrio chlorellavorus parasitism,** electron microscope examination of on cells of Chlorella vulgaris. 4658

**Bead Geyser,** effect of temperature fluctuation on blue-green algae of. 2709

**Bean,**
  genetics and heritability of resistance to Fusarium solani f. phaseoli in. 5110
  genetics and heritability of resistance to Thielaviopsis basicola in. 5129
  immunity towards Colletotrichum lindemuthian 6954
  Phaseolin accumulation in in response to tobacc necrosis virus and Uromyces appendiculatus infections. 2346
  relationship between genes controlling resistance to Fusarium and Thielaviopsis root rots in. 5111
  in Washington, Pythium ultimum as root pathogen of. 2988

**Bean (cluster),** microbial population of strained rumen liquor of lactating cows fed with. 593

**Bean (field),** useful mutations induced with γ-rays in. 1761

**Bean (green),** cultivar-specific protection factor from incompatible interations of with Colletotrichum lindemuthianum. 6358

**Bean (haricot),** aflatoxin in. 5161

**Bean (lima),**
  evaluation of and selection for resistance to Rhizoctonia solani. 5124
  occurrence of downy mildew of. 5713

**Bean anthracnose,** induced resistance at a distanc from the site of the inducing interaction. 1001

**Bean hypocotyls,** formation and activity of phaseollin in the interaction with Colletotrichum lindemuthianum. 2353

**Bean rust fungi,** comparison of with a culturable wheat rust fungus. 4706

**Bed (air-fluidized),** bactericidal effect of. 1525

**Bee (crepuscular),** biology of in relation to associated bees, mites and yeasts. 4633

**Bee (emerging),** effects of on Nosema disease in honeybee colonies. 6893

**Bee (foraging worker honey),** fungi isolated from the intestinal contents of. 7188

**Bee (honey),**
  infected with Nosema apis and treated with fumagillin DCH, nucleic acids in the intestine of. 3735
  preimaginal amoebiasis of. 2289
  in the USA, chalk brood disease of. 7581

**e tissue culture (honey),** cultivation of Nosema apis in. 3560

**ech,** biodeterioration of in water cooling towers. 543, 544

**ech bark disease,**
  in northeastern USA. 7632
  in Pennsylvania. 512

**ech forest (hard),** soil mycoflora of. 1799

**er,** measurement of low levels of yeast contamination in. 1188

**etle,** Nosema whitei of. 5691-5693

**etle (ambrosia),**
  Ceratocystis fagacearum not transmitted by. 2992
  notes on associated fungi and mycetangia of. 2403
  Pichia from. 2459

**etle (aspen ambrosia),** Ceratocystis associated with. 5213

**etle (bark),** influence of herbicides on attack by in oak wilt trees. 6904

**etle (confused flour),** survival and reproduction of after exposure to fungus metabolites. 3704

**etle (healthy southern pine),** microflora from the alimentary tract of and possible relationship to pathogenicity. 5288

**etle (Ips bark),** in pine bolts, effect of bluestain fungus on development of. 5040

**etle (oak bark),** attacks by on oak wilt trees in Missouri. 6903

**etle (red rust flour),** parasitized by Nosema whitei, effects of malnutrition on growth and mortality of. 3737

**etle fauna,** associated with the maturational stages of Leccinum testaceo-scabrum, changes in. 6550

**etroot leaves,** effect of plant age on inhibition of Botrytis cinerea spores by bacteria on. 6101

**ijerinck medium,** for growing Chlorella pyrenoidosa. 346

**lgium,**
  diagnostic errors in malaria in. 1049
  hydrobiological study of the polluted River Lieve in. 3844
  primary amoebic meningoencephalitis in. 1043, 1709

**ngal,** significance of occurrence of blooms of Hemidiscus hardmannianus in relation to Hilsa Fishery in. 3996

**nlate,**
  control of Botrytis cinerea mycosis in strawberry cultures with. 6945
  control of clubroot of cauliflower in loam and peat soils. 3085
  control of flower and branch monilia of stone fruit with. 3783
  control of Ophiobolus graminis by. 5501
  control of Sclerotinia with. 6338
  control of spike disease of sandal by. 5135
  control of spike disease of sandal with. 6336
  control of wheat diseases with. 4562
  effect on Aspergillus niger in vitro. 6134
  spray programme for peach fungus diseases with. 5723
  toxicity of against seed-borne pathogens of maize. 2355

**Benomyl,**
  absorption and movement of into cotton bolls and control of boll rot. 1130
  activity of against roter brenner. 5082
  comparison of in vitro antifungal spectra of. 4299
  control of apple scab, bitter rot and sawfly in Poland with. 2330
  control of black rot of sweet potatoes with in dips at various temperatures. 1104
  control of common and dwarf bunt of wheat with. 3013
  control of Dutch elm disease with. 2993
  control of Fusarium blight of Merion Kentucky blue grass with. 2362
  control of leaf diseases on black currant in Poland with. 2997
  control of loose smut of wheat with. 6943
  control of Pithomyces by. 5121
  control of powdery mildew of greenhouse strawberries with. 5088
  control of ramularia leaf spot of primrose with. 1147
  control of red core of strawberry with. 5070
  control of Rhizoctonia blight of Florida Ruffle fern with. 520
  control of rose blackspot in the field with. 4579
  control of stem blight of Vinca minor by. 5120
  control of stripe smut in Merion Kentucky blue-grass turf with. 6942
  control of tracheomycoses of American carnation with. 2372
  control of Verticillium wilt of chrysanthemum with. 3069
  control of Verticillium wilt of tobacco with. 3067
  detection of and Phialophora cinerescens in cultivated carnation stems in Phialophora cinerescens infected and treated soils. 2373
  effect of on eradication of Ustilago striiformis from Agrostis palustris and on plant growth. 7646
  effect on eyespot disease of winter barley var Pella. 2352
  effect of on Fusarium oxysporum spores. 5514
  effect on the mycoflora of pasture plant leaves. 5122
  effect of at various temperatures on the occurrence of sweet potato scurf. 5118
  heated wax-emulsions with for control of post-harvest decay of peaches and nectarines. 4642
  influence of date of seeding on control of Cercosporella foot rot with. 5099
  influence of on soil microflora. 5770

**Benomyl**, contd.,
  practical technique for the determination of systemic activity of in vitro. 2121
  resistance to in Penicillium. 2104
  spraying technique and expenditure of spray emulsion in the control of grape Botrytis with. 6948
  suppression of ascospore production by Venturia inaequalis by. 4886
  uptake of by tea plant and effectiveness against stem canker. 2377
  use of for seed treatments. 3071
**Benomyl (Du Pont)**, use of against Oidium. 6412
**Benomyl (post-harvest)**, control of blue and grey mould in wounded apples by. 5165
**Benomyl application**, timing of in relation to control of Botrytis strawberry rot. 3026
**Benomyl migration**, in carnations cultivated on treated soil infected by Fusarium oxysporum f. sp. dianthi. 2374
**Benomyl preharvest treatment**, control of storage decay of strawberry plants with. 2412
**Benomyl rates**, and application time for wheat foot rot control. 6951
**Benomyl sprays (preharvest)**, for control of decay of California nectarines. 2369
**Benomyl-surfactant combination**, wilt treatment for control of cotton Verticillium wilt with. 524
**Benthic marine algae**,
  along a littoral rocky slope in Southwest Iceland, density of. 1943
  of Delaware. 7172
  of insular Newfoundland, additions to. 6534
  from waters adjacent to the Crystal River Electric Power Plant. 4008
**Benthos**, of a eutrophic pond, effects of saprobic conditions on some ciliated Protozoa in. 1353
**Benthos (epilithic microphylo)**, qualitative and quantitative study of a population of diatoms of. 5761
**Bentonite**, effect on growth of Candida lipolytica. 888
**Benzamides (N-p-hydroxypropiophenon-3-yl)**, synthesis and antifungal properties of. 3508
**Benzene (1,2-bis(3-methoxycarbonyl-2-thioureido) and 1,2-bis (3-et oxycarbonyl-2-thioureido)**, evaluation of for control of stripe smut in Merion Kentucky blue-grass turf. 6942
**Benzene(dimethoxy-1, 4-nitro-2-trichloro-3,5,6-)**, from Fomes robiniae. 3417
**Benzenesulphonylcarbamates**, effect on Chlorella pyrenoidosa growth. 5496
**Benzimidazole**,
  effect of at various temperatures on the occurrence of sweet potato scurf. 5118
  protective effect of applied preharvest for post-harvest control of orange decay. 2371
**Benzimidazole (substituted)**, effect of on Pithomyces of pasture plant leaves. 5122
**Benzimidazole derivatives**, problems in the development of. 5133
**Benzoic acid**, formation in Bramley's seedling apple fruits following infection by Nectria galligena. 2328
**Benzoic acid derivatives**, utilization of by yeasts. 962
**Benzophenone**, conversion of anthraquinone questin into in Aspergillus terreus cultures. 3424
**N-Benzoyl-N-(dichloro-3,4-phenyl)-N'N'-dimethyl-urate**, action on the microflora of cultivated soils. 1174
**Benzyl alcohol**, production of by Phellinus. 5438
**S-Benzyl O,O-diisopropyl phosphorothioate**, metabolism of by Pyricularia oryzae mycelial cells. 4895
**S-Benzyl O-ethyl phenylphosphonothioate**, metabolis of by Pyricularia oryzae mycelial cells. 4896
**Berberine hydrochloride**, treatment of experimenta Toxoplasma gondii infection with. 1091
**Berenil**,
  development of clinically recognizable nervous symptoms in nagana-infected horses treated with subcurative doses of. 5050
  molecular organization of kinetoplast DNA of Trypanosoma cruzi treated with. 6705
  therapeutic effect of on rodent malaria. 1087
**Bergapten**, from celery infected with Sclerotinia sclerotiorum, isolation and identification of. 5727
**Bermuda**, annual cycle in quantity and composition of the zooplankton of the Sargasso Sea off. 4059
**Bermudagrass (dormant)**, spotting and discolouration condition of. 6926
**Berry infection technique**, for assessment of Colletotrichum coffeanum CBD str on coffee branchlets. 4572
**Beta vulgaris**, effect of pollen on the fungal leaf microflora of and on infection of leaves by Phoma betae. 6554
**Betamethasone**, effect on Babesia in rodents. 1741
**Betnovate scalp application**, in the treatment of skin diseases. 1697
**Betula**, fungal colonization of fence posts of. 539
**Bicarbonate**, fixation by extracts and mycelium of Neocosmospora vasinfecta. 163
**Bighead**, protozoan diseases of the fry of. 1079
**Bikaverin**,
  crystal and molecular structure of chloroform solvate of. 258
  isolation and characterization of. 257
**Bikaverin and norbikaverin**, from Gibberella fujikuroi. 260
**Bile**, of duckling, Mucor divergence in aflatoxin effects with. 1475
**Bile (human)**, Dientamoeba fragilis in. 2256
**Bile acid**, structural specificity of for inhibition of sterol synthesis in cell-free extracts of yeast. 6107

**ile salt metabolism,** in relation to small intestinal flora. 7200
**ilirubin,** contribution to the inhibitory activity in malaria. 487
**iochemical characterization,** of β-glucosidase mutants in Saccharomyces lactis. 5576
**iochemistry,**
  of Dermatophilus congolensis, comparison of strs from different animals. 1029
  of Hartmannellid amoebae. 1964
**iocide,** yeast resistant to. 908
**iocoenosis (2-component algal bacterial),** mathematical model of. 6145
**iocoenosis (coral reef),** trophic role of microflora in. 1811
**iocoenosis (degradative),** of inorganic fertilizers. 6420
**iocontrol,** for Sclerotium rolfsii, efficacy of Trichoderma harzianum as. 7674
**iodeterioration,** Talaromyces emersonii causing. 1189
**iodeterioration (of timber),** in cooling towers. 543, 544
**iofilter biological film,** algae of and their role in the processes of self purification. 2531
**iogenic elements,** dependence of primary phytoplankton production on. 2078
**iological clock,** in Chlamydomonas reinhardtii, mutants of. 6182
**iological control agents,** microbes as. 6300
**iomass,**
  of Gloeotrichia echinulata, influence of experimental increase of on phytoplankton production. 5265
  of phytoplankton in high mountain lakes, factors controlling. 7165
**iotin,**
  antimetabolites of. 4249
  biochemical factors affecting the synthesis of by Phycomyces blakesleeanus. 4208
  biosynthesis of by Phycomyces blakesleeanus. 4207
  conversion by Bacillus sphaericus and Rhodotorula rubra of biotin diaminocarboxylic acid into. 213
  in Lake Sagami. 7164
  production and utilization in sewage treatment lagoon. 546
  repression of L-amino acid oxidase from Neurospora with. 2721
**iotin content,** of marine phytoplankton. 7333
**iotin diaminocarboxylic acid,** conversion into biotin and bisnorbiotin by Bacillus sphaericus and Rhodotorula rubra. 213
**iotin transport,** in yeast, irreversible inhibition of by biotinyl-p-nitrophenyl ester. 1517
**iotin uptake,** by Saccharomyces cerevisiae, transport overshoot during. 7269
**iotinyl-p-nitrophenyl ester,** irreversible inhibition of biotin transport in yeast by. 1517
**Biphenyls (polychlorinated),**
  alteration of spp composition in mixed cultures of algae by. 4883
  toxicity of to certain phytoplankters. 3497
**Bipolar bodies,** in Crithidia oncopelti, electron microscopic study of. 1884
**Birch,** zonation of corticolous lichens on. 671
**Birds,**
  analysis of factors in aspergillosis of. 1634
  Babesiidae from. 62
  changes of organ weight and blood components in coccidiosis. 2957
  contribution of the faunistics of Coccidia of in Thuringia and Saxony. 6559
  incidence of respiratory mycoses of. 3694
  long-range dispersal of aquatic phycomycetes by. 116
**Birds (corvid),** speciation, transmission and schizogony of Leucocytozoon in. 2300
**Birds (gallinaceous),** susceptibility of to Akiba caulleryi. 3719
**Birds (red-tailed Lybian),** endogenous stages of the life cycle of Eimeria schamchorica parasite of. 3232
**Bird's nest fungus,**
  from Colombia, new sp of. 1872
  of the Hawaian Islands. 4738
**Bird's nest fungus (large-spored),** from Mexico. 1234
**Birds of prey,** diseases of. 6216
**Birdsfoot trefoil,** in Alberta, crown and root rot of. 5757
**Birefringence,** in Chaos carolinensis, pattern of. 5808
**Birth (premature),** trichomoniasis infection in. 1704
**Bis (dimethylthiocarbamoyl) disulfate (T-1),** sensitivity of Blastocladiella emersonii spores to. 906
**Bismuth,** treatment of amoebiasis with. 2911
**Bisnorbiotin,** conversion by Bacillus sphaericus and Rhodotorula rubra of biotin diaminocarboxylic acid into. 213
**Bitter pit,** relationship between spray combinations of fungicides with calcium nitrate on the incidence of. 918
**Bitter rot,** control of in Poland with new fungicides. 2330
**Blackcurrant,**
  effectiveness of benomyl for control of leaf disease on. 2997
  Torulopsis fragaria from. 666
**Black Drum,** Henneguya from. 4053
**Blackfly,**
  Harpella melusinae from gut of. 2453
  with microsporidian infection, ultrastructure of cytoplasm in fat-body cells of. 5706
**Black heart,** of banana, control of. 3041
**Blackleg,** and bacterial seed-piece decay of potato. 7665

**Black pod (cacao),** induced by Phytophthora palmivora, use of organotin compounds against. 2318
**Black point,** of wheat grain. 7648
**Black scurf,** of potato, caused by Rhizoctonia solani under field conditions, effect of fungicides on. 4597
**Black shank,**
  control of through varietal development and evaluation. 2320
  Nicotiana tabacum, inheritance of resistance to. 2153
**Blackspot,**
  of rose, control of in the field with benomyl. 4579
  of vine, Phomopsis citicola causing. 3788
**Black thread,** control in Hevea brasiliensis with Difolatan. 498
**Bladder,**
  Candida albicans septicaemia after total cystectomy and coloplasty for carcinoma of. 6824
  fungus balls in. 6814
**Blanching,** effect on quality of freeze-dried mushrooms. 2406
**Blast,** of ryegrass in Mississippi. 5753
**Blast (flower),** of statice in south Florida. 3024
**Blast (leaf),** in rice, cytoplasmic effects on. 6977
**Blast (rice),** recognition and control of. 3055
**Blast (St. Augustine),** control of in lawn grass by removal of mower clippings. 2341
**Blast fungus,**
  causing ryegrass kills. 7670
  investigation on the toxic production by and isolation of tenuazonic acid as novel toxin from. 7320
**Blastomycosis,**
  of bone. 5615
  comparative study of 2-hydroxystilbamidine and amphotericin B therapy. 6249
  experimental canine histoplasmosis and. 1725
  fulminating fatal pneumonia due to. 5616
  in a hunting dog. 6290
**Blastomycosis (chromo and South American),** regional peculiarities of. 5634
**Blastomycosis (experimental),** effect of prior vaccination on. 2209
**Blastomycosis (keloidal),** study of fungal strs isolated from cases of. 1009
**Blastomycosis (North American),**
  in Central Canada. 3624
  survey participation by practitioners in relation to establishing endemic boundaries of. 4955
**Blastomycosis (primary cutaneous).** 1671
**Blastomycosis (pulmonary),** differential diagnosis from carcinoma. 6250
**Blastomycosis (South American),**
  bronchial involvement in. 1032
  conglutinating complement fixation reaction in. 929
  intraabdominal calcifications in. 2882
  specific precipitant antibodies in revealed by immunoelectrophoresis. 1653
**Blastomycotic cavities,** Aspergillomas occurring in. 4440
**Bleached Euglena and Astasia longa,** ultrastructura comparisons of with Euglena gracilis. 3872
**Bleached Euglena gracilis,** photoinduced division synchrony in. 1266
**Blemishes,** effect of various storage atmospheres on the occurrence of on Shamouti oranges. 6409
**Bleomycin,**
  inhibitory effect of on phospholipases. 7410
  in mycosis fungoides and reticulum cell lymphoma. 2244
**Blight,**
  caused by Helminthosporium turcicum in Paspalum scrobiculatum. 515
  chemical help available for. 1154
  of corn, effect of feeding chicks on. 1181
  digestibility and energy value for hogs of corn damaged by. 1182
  effect of corn with on the performance of growing-finishing pigs. 1184
  of Florida Ruffle fern, caused by Rhizoctonia. 520
  of maize, reappearance of in USA. 1152
  of potato, control of with aryltin compounds. 2749
  potatoes resistant to in Mexico. 495
  of Ricinus communis, parasitism and physiology of Alternaria ricini causing. 2348
  of soybean pod. 1778
  use of corn in case of damage by. 1155
**Blight (Botrytis),** epidemiology of in Macadamia racemes. 5093
**Blight (brown spot needle),**
  breeding longleaf pine resistant to. 5076
  of Scotch pine Christmas trees in Wisconsin. 1114
**Blight (early),** of tomato, field evaluation for resistance to. 2349
**Blight (extensive southern pine needle),** fungi associated with in 1970-71. 2327
**Blight (Fusarium),** in Merion Kentucky blue grass, chemical control of. 2362
**Blight (Helminthosporium maydis),** effect of corn infected with on performance of gestating sows. 3102
**Blight (late),**
  of potato, effect of apparatus on control of. 2981
  of potato, method for estimating loss in tuber yield caused by. 3749
  of potato, quantitative relationship with tuber yield. 4538
  of potato, survey of estimation of losses caused by. 3074

**light (leaf),**
  of Dionaea muscipula incited by Colletotrichum gloeosporioides. 6953
  resistance of onion to. 1774
  of wheat, losses and control of. 3756
**light (Marasmius),** of American beachgrass. 505
**light (Phytophthora),**
  of Gerbera blossom, studies into. 1099
  of macadamia. 1098
**light (pod and stem),** association of with stem breakage in soybeans. 7631
**light (seedling),** recognition and control of. 3055
**light (seedling tip),** of Arizona cypress and eastern red cedar, Curvularia intermedius associated with. 5104
**light (shoot),** of Eucalyptus caused by Ramularia. 6978
**light (Sirococcus tip),** of Jeffrey pine seedlings, control of. 5128
**light (southern corn leaf),**
  association of virulence and mating type among Helminthosporium maydis isolates causing. 2365
  dry-milling of corn attacked by. 6968
  effect on fatty acid composition of corn oil. 3781
  genetic control of pathogenicity and toxin production in Cochliobolus heterostrophus causing. 2154
  importance of. 6324
  influence of shade and wet soil on. 5115
  microbial reduction in stored and dry-milled corn infected with. 7667
  potential danger to sweet corn by. 1153
  potential for spread and increase of. 5113
  resistance to. 6965
  scanning electron microscopy for detection of leaf modifications in. 514
**light (stem),**
  of Vinca minor, control of. 5120
  of Vinca minor, epidemiology of incited by Phoma exigus var. exigua. 1111
**light (stem end),** of Carya illinoensis, fungicides reducing the incidence of. 6989
**light (tuber),** of potato, occurrence of Ulocladium consortiale as an associate fungus of Alternaria solani in. 6985
**light (Typhula),** comparison of application date for control of. 3768
**light (white thread),** study of in the southern Ivory Coast. 2333
**light (yellow leaf),**
  of corn, comparison of isolates causing. 3077
  of maize, Phyllosticta maydis as incitant of. 2466
**light-infected plants (southern corn leaf),**
  in Florida, Phaeosphaeria herpotricha on. 7671
  trichotoxin A from Trichoderma viride isolated from. 3392
**light stage (twig),** of sycamore anthracnose, control of. 6910
**lighted corn silage,** effect on beef cattle. 1814
**Blindness (cortical),** aetiology of in Nigeria. 1052
**Blood,**
  of Caspian Sea fish, trypanosomes from. 1341
  of cattle, morphology of Trypanosoma theileri in. 3714
  detection of trypanosomes in by the haematocrit centrifuge technique after Woo. 7510
  diagnosis of Gambian trypanosomiasis in man by isolating trypanosomes from. 2795
  of dog, soluble and corpuscular antigens of Babesia isolated from. 3619
  of mice, action of some drugs against Trypanosoma cruzi in. 1733
  from reservoir host, isolation of Leishmania braziliensis by intraperitoneal inoculation of into hamsters. 6874
**Blood (heat inactivated parasitized),** vaccination of mice against malaria with. 4982
**Blood (human),** Flagellata of. 676
**Blood (human or animal),** culture of Trypanosoma brucei in biphasic medium of. 4344
**Blood (human and Aotus monkey),** infected with Plasmodium falciparum, comparison of malarial antigens from. 4984
**Blood components,** changes of in avian coccidiosis. 2957
**Blood culture system (sterifil lysis-filtration),** evaluation of. 6153
**Blood donors,** indirect fluorescent antibody test for detection of occult malaria in. 4432
**Blood forms,**
  of malaria parasites, cytochemical observations on acid hydrolases in. 5361
  of Trypanosoma musculi, autoradiography of. 6688
  of Trypanosoma brucei, effect of diphenylamine on terminal respiration in. 6110
**Blood gases,** in acute Plasmodium falciparum malaria. 5032
**Blood incubation infectivity test,** differentiation of Trypanosoma brucei and T. rhodesiense by. 949
**Blood parasite infections,** current state of serological test for detection of. 4989
**Blood parasites,**
  of small alpine mammals, Grahamella and Sporozoa as. 4058
  in wild turkeys of eastern West Virginia. 7603
**Blood passage (serial),** of Plasmodium vivax in squirrel monkeys. 3743
**Blood protozoa,** improved apparatus for the maintenance of in continuous flow medium. 4931
**Blood reaction,** in vitro in crayfish against Aphanomyces astaci. 5650
**Blooms,**
  of Hemidiscus hardmannianus, significance of occurrence of in relation to Hilsa Fishery in Bengal. 3996
  of Peridinium, attempt at forecasting of in Lake

- **Blooms, contd.,** Kinneret. 7157
  - of spring phytoplankton in North and Northwest Atlantic, chemical bases and mechanisms of. 7173
- **Blooms (blue-green algal),** phytoplankton succession in eutrophic lake with special reference to. 5263
- **Blooms (Gymnodinium),** in Helgoland Bight, during August 1968. 3116
- **Blooms (phytoplankton),** in Venice lagoon. 1299
- **Blossom,** of Gerbera, Phytophthora blight of. 1099
- **Blotch,** caused by Septoria in spring wheat. 522
- **Blotch (leaf),** of wheat, losses and control of. 3756
- **Blotch (purple),** on Sedum, causal organism of. 7126
- **Blotch (speckled leaf),** caused by Septoria tritici, sources of resistance in wheat to. 5127
- **Blue-grass turf (Merion Kentucky),** evaluation of systemic fungicides for control of. 6942
- **Blue mould,** inheritance of resistance to in tobacco. 5069
- **Blue stain fungus,**
  - association of Dendroctonus ponderosae with during brood development in lodgepole pine. 1321
  - effects of on development of Ips bark beetles in pine bolts. 5040
  - phenoloxidase activity of. 2626
  - in poplar wood. 541
  - studies of enzymes of. 757
- **Blueberry,** held at various storage times and temperatures, fungi associated with. 4648
- **Blueberry fruit (highbush),** postharvest decay of in North Carolina. 5793
- **Blueberry stem,** histopathology and pathogenicity of Botryosphaeria dothidea on. 7628
- **Blueberry stem canker fungus,** factors affecting sporulation and infection by. 4244
- **Boa constrictor,** transfer of Heptazoon from to foreign hosts. 4518
- **Body weight,** significance of on the pathogenic effect of Eimeria acervulina in the fowl. 6885
- **Bohemia,** infection experiments with Puccinia perplexans in. 3007
- **Bone,**
  - African histoplasmosis of. 6246
  - blastomycosis of. 5615
  - roentgenographic features of coccidioidomycosis and differential diagnosis. 4992
- **Bone disease (chronic suppurative),** pretreatment of before definitive surgery. 4459
- **Bone marrow aspiration,** diagnosis of malaria by. 6846
- **Bone marrow transplantation,** reverse isolation in, in ultra-clean room compared with laminar flow technique. 7555
- **Boophilus,** infection rates of various strs of with Babesia bigemina. 1078
- **Boophilus microplus,** estimation of infection rates with babesiasis in. 417
- **Boreo-Continental distribution,** of Lycoperdon norvegicum in Europe and North America. 1953
- **Borneo,** Phylloporus and Paxillus in. 1237
- **Botanical Museum,** of Helsinki University, accessions to. 1845
- **Bothrosome,** role of in extracellular membrane production in Labyrinthula. 6497
- **Botran,** spray programme for peach fungus diseases with. 5723
- **Bottom samples,** of foraminifera, from the Tarant Gulf. 1345
- **Botulism,** caused by a type A excitant and associated with use of home-preserved mushrooms. 3827
- **Boviquinone-3,** constituent of in Gomphidius rutilus. 284
- **Brain,**
  - aspergillosis of in goose and turkey. 464
  - bacterial and mycotic infection of. 2878
  - a case of cryptococcal abscess of. 1026
- **Brain lesions,** in chicken aspergillosis. 2276
- **Brain slices,** of rats infected with pathogenic and non-pathogenic trypanosomes, comparative metabolic activity of. 6306
- **Brain smears,** use of in the diagnosis of Babesia argentina infections in cattle. 4348
- **Brain surgery,** treatment of cryptococcal meningitis by. 7547
- **Bramley seedlings,** infection of by Nectria galligena. 1187
- **Branch initiation,** in Aspergillus nidulans, model for based on measurements of growth parameters. 3975
- **Branch monilia,** of stone fruit and treatment with new organic fungicides. 3783
- **Brassica oleracea L. var botrytis,** study of diseases of. 6944
- **Brassicasterol,** in Cyclotella nana and Nitzschia closterium, occurrence of. 2668
- **Brassicol,** effect on the growth of Rhizoctonia solani in vitro. 6138
- **Brazil,**
  - antiparasitic therapy in. 5645
  - chloroquine resistance of Plasmodium falciparum in. 3676
  - coffee rust menace in. 6941
  - deep-water algae of. 1304
  - deep-water marine algae of. 1312
  - epidemiology of bovine dermatophilosis in. 360
  - immunological response to toxoplasmosis in population groups of Sao Paulo in. 7516
  - paracoccidioidomycosis in. 6245
  - Phytophthora foot rot of black pepper in. 4540
  - psamophylic ciliates of littoral of. 6561
  - Sarcoystis gracilis from tortoises in. 133
  - simian malaria in. 1649
  - timber-attacking fungi from. 7077
  - timber-attacking fungi from Maranhǎo in. 7699

**azil, contd.,**
  transmission of simian malaria in. 1650
  Trypanosoma vivax in. 4964
**eeding (microorganisms),** research development in. 2183
**estan 60,**
  in vitro tests with for inhibitionof Colletotrichum gloeosporioides. 1550
  in vitro trials for suppression of Colletotrichum gloeosporioides with. 2756
**ewery,** detection of wild yeasts in. 2116
**ewery spoilage microorganisms.** 5116
**inase,** from Aspergillus oryzae, use of in cases of arterial venous shunt occlusions. 2880
**inase** R, thrombolytic treatment with of dogs with experimental pulmonary embolism. 7243
**ine,** physical, chemical and microbiological study of fermentation of ripe black olives in. 4649
**istles,** in Scenedesmus str 614, ultrastructure of. 10
**istol,** history of dermatology in. 4462
**itish Honduras,** revision of Trypanosoma cruzi from. 7086
**itish Solomon Islands Protectorate,** incidence and importance of diseases of cacao in. 2983
**occoli,** firm head rot of. 3790
**omide,** vacuolar fluxes of in Nitella translucens. 550
**omides (n-alkyl-1),** toxicity of towards yeasts. 6698
**omine,** in seawater and the ash of marine algae, spectrophotometric method for determination of. 3527
**Bromophenylhydrazone,** production by Calonectria decora. 865
**omosan,** control of Fusarium blight of Merion Kentucky blue-grass with. 2362
**onchial brushing technique,** diagnosis of pulmonary aspergillosis by. 3544
**onchitis (asthmatic),** in infants and children, moulds in the aetiology of. 1015
**onchitis (chronic),**
  in baker's, role of bacterial and fungal flora in development of. 3598
  comparison of trimethoprim/sulphamethoxazole compound and tetracycline in exacerbations of. 7537
  importance of candidosis in. 5007
**onchus,**
  allergic aspergillosis of. 5002
  aspergilloses of. 1673
  equine pulmonary emphysema caused by mould allergy of. 7582
  infections of and deficient alveolar phagocyte function. 5613
  involvement in South American blastomycosis. 1032
  results of surgical management of 26 cases of aspergilloma of. 5611
  treatment of infections of with trimethoprim-sulphamethoxazole association. 3634
**Brooder houses (poultry),** bacteria and fungi within the lesser mealworm collected from. 6286
**Brown (Robert),** type collection of in relation to Ustilago and Cyperus lucidus in Australia. 5840
**Brown spot (Physoderma),** importance of. 6324
**Browning,** in flax seeds, caused by Polyspora lini. 518
**Bryophytes (Scottish),** fungi on. 6538
**Bryopsis plumosa,** development and morphology of a chytrid isolated from. 4716
**Bubalis bubalis,** Trypanosoma vivax from in Brazil. 4964
**Buccal cavity,** in Entodinium caudatum, structure of the lining of. 66
**Buccal moniliasis manifestations,** after the use of drugs other than antibiotics and cortisones. 5006
**Bucharest,** review of onychomycosis by dermatophytes isolated in. 2844
**Buckwheat,** action of fungicides on fungi occurring on. 6366
**Buckwheat seed,** microflora of. 5796
**Bud (adventitious),** of Petroglossum nicaeense in culture. 5877
**Bud (axillary),** from stolon nodes of perennially infected Agrostis palustris, sporadic development of Ustilago striiformis in. 1126
**Bud cells (growing),** of heterobasidiomycetous yeasts, apical vesicles in. 3177
**Bud development,** in Saccharomycodes, electron microscope study of. 628
**Bud emergence,** in yeast, genes controlling. 2171
**Bud necrosis,** of tulips, symptoms and influence of storage conditions on. 542
**Budd-Chiari syndrome,** caused by amoebic liver abscess. 2923
**Budding,**
  of Micrasterias fimbriata, morphogenetic modifications induced by puromycin and cycloheximide on. 6117
  in Spirochona gemmipara, structure of the nucleus at the point of. 3234
**Budding yeast,** isolation of glucanase-containing vesicles from. 5331
**$\Delta^4$-Bufatrienolides,** microbial transformations of. 2043, 2044
**Buffalo,** theileriasis in in the Punjab. 6316
**Buffalo (water),** Trypanosoma vivax from in Brazil. 4964
**Buffalo calf,** asexual stages in eimerian lesions of. 5255
**Buffering properties,** of medium, effect of growing algal cells on. 4317
**Bufo valliceps,** Hegneriella dobelli from. 2475
**Bulgaria,** studies on adiaspiromycosis spread in. 3603
**Bull,** mycotic pneumonitis in. 463

**Bullous lesions,** mycosis fungoides associated with. 1698
**Bulnesoxide,** identification with 10-epiguaioxide. 292
**Bunt (common),** new factor for resistance to in hexaploid wheats. 3014
**Bunt (common and dwarf),**
- of wheat, control of with systemic fungicides. 3013
- in wheat, control of by seed treatment with thiabendazole. 1123

**Buoyancy,**
- in Anabaena circinalis natural population. 7093
- interrelations of with cell turgor pressure and gas vacuolation in Anabaena flos-aquae. 6657

**Buoyancy regulation,** of planktonic blue-green algae. 7095
**Buquinolate,** influence of on endogenous cycle of Eimeria acervulina. 4308
**Burkitt's lymphoma,** and malaria. 7566
**Burma,** resistance to chloroquine of Plasmodium falciparum from. 7570
**Burn patient,** Candida infections in. 4447
**Burn wound,**
- occurrence and significance of yeasts and fungi in. 7540
- prevention of bacterial growth and local infection in. 7554

**Burrow,** Klossiella equi from. 7134
**Busan,** control of Sclerotinia with. 6338
**Busulfan therapy,** toxic manifestations of. 4490
**Butenolide mycotoxin,** toxic effects of and of Fusarium tricinctum cultures in cattle. 6294
**Butter (Norwegian),** microbiological quality of. 5788

# C

**Cabbage,** resistance to some bacterial and fungal diseases. 6351
**Cabbage postharvest decay fungi,** influence of controlled-atmosphere storage conditions on. 3106
**Cable theory (general),** for cells of Characeae. 3847
**Cacao,**
- in the British Solomon Islands Protectorate, incidence and importance of diseases of. 2983
- survival of Phytophthora palmivora in plantation of during dry season. 1162
- in Uganda, Verticillium wilt of. 3792

**Cacao black pod,** induced by Phytophthora palmivora, use of organotin compounds against. 2318
**Cacao pod,**
- anatomical study of in relation to Phytophthora palmivora attack. 7624
- behaviour towards Phytophthora palmivora in the Ivory Coast, role of environmental i 2319

**Cacao tissue,** adaptability to Phytophthora palmivora. 497
**Cactus,** suppression of witches' broom growth in treatment with tetracyclines. 1128
**Cadmium succinate tolerance,** in Cochliobolus carbonum, epidemiology of. 4945
**Caecal coccidiosis,** of the fowl, physio-pathology of. 4981
**Caecal passage (rat),** effect on virulence of Entamoeba histolytica to rats. 2955
**Caeco-cystoplasty,** renal candidosis complicatin 7527
**Caecum,**
- amoeboma of with hepatic metastases. 3674
- cancer of, relation to amoebic granuloma. 45
- of horses, nitrogen and glucide metabolism of Cycloposthium of. 4148
- treatment of amoeboma of. 2925
- of young fowls, development of Eimeria acervulina in. 5686

**Caesium,** control of extracellular ribonuclease a enzymes involved in nitrogen assimilation 746
**Caesium (radio),** transfer of from lichen to reindeer. 1185
**Caffeine,**
- determination of with Hematococcus pluvialis. 905
- effect on killing of Anabaena doliolum by UV-radiation. 896

**Cakes,** from Mexican algae. 1809
**Calanoids,** as new host for Astasia. 3687
**Calcareous nannoplankton,** morphological details of emphasized by interference contrast. 15
**Calcification (coral),** role of symbiotic algae in. 1317
**Calcification (intraabdominal),** in South America blastomycosis. 2882
**Calcium,**
- bound to alkaline proteinase of Aspergillus sojae. 756
- effect of on growth of axenic desmid cultures. 7355
- inhibition of Rhizobium trifolii by yeast extra or glycine prevented by. 6068
- of laver, relationship between chemical constituents in environmental factors. 791
- from Platymonas viridis cultivated on water from different seas, content of. 7354
- as specific regulator of amino acid transport and protein synthesis in Achyla. 6615
- strontium-substitution for and algal cell size. 4356

- **Calcium,** influence of powdery mildew infections on accumulation in leaves of apples seedlings. 1112
- **lcium-bearing minerals,** biochemical weathering of by rhizosphere microorganisms. 3816
- **lcium carbonate,** production of on the mainland shelf of southern California. 6650
- **lcium chloride,** relation to growth and reproduction of Phytophthora cactorum. 2813
- **lcium chloride-urea mixture,** method for extraction of ribosomal proteins from Dictyostelium discoideum with. 1565
- **lcium cyanamide,** influence of on sporulation of Cercosporella herpotrichoides. 4571
- **lcium deficiency,** effect on ultrastructure of Scenedesmus. 4239
- **lcium ions,**
  - modification of ciliary movement of Paramecium by. 4864
  - reversal of growth inhibition of Debaryomyces nicotianae by antifungal polyene antibiotics by. 6693
- **lcium nitrate,** combined with certain fungicides, effect on incidence of bitter pit and fungal diseases of apples. 918
- **lcium oxide,** effect of disinfectant in simulated ponds in relation to whirling disease. 3734
- **lcium-potassium equilibrium,** and chemotactic sensitivity in Stentor coeruleus. 6113
- **lcium propionate,** as postharvest chemical treatment of apple against rot and deterioration. 540
- **lcium repositories,** in plasmodia of Physarum polycephalum, subcellular localization of. 6437
- **lcium response (regenerative),** in Paramecium. 7725
- **lefaction,** and phytoplankton. 3243
- **lf,** see also Cattle.
  - experimental myrotheciotoxicosis in. 2281
  - immunity to Babesia bigemina in after successful babesicidal treatment of previous infection. 5682
  - response of to single dose of aflatoxin. 6860
- **lf (bovine),** ringworm in. 6298
- **lf (splenectomized),** pathogenesis of Babesia infections in. 6309
- **lf renin,** inactivation of acid proteases from diazoacetylnorleucine methyl ester. 3454
- **libration,** of flow-meters used for plankton sampling, rotary system for. 6716
- **licut inshore waters,** plankton of. 3261
- **lluna vulgaris,** production by roots of of a factor inhibitory to growth of some mycelial fungi. 5503
- **lomel,** for preventing clubroot of cauliflower in loam and peat soils. 3085
- **lorimetric investigations (micro),** of yeast metabolism. 2777
- **lorimetric measurements (micro),** in Scenedesmus in synchrononous cultures. 2478
- **Calorimetry,** use in investigations in ecological energetics. 1830
- **Calotermes flavicollis,** life cycle of Hexamastix termitis during imago moult of. 3229
- **Cambium (vascular),** of Ulmus americana, effect of Ceratocystis ulmi on. 6328
- **Cameroon,** treatment of Plasmodium falciparum malaria in with single dose of antifolic drugs. 2260, 2266
- **Cameroon (Eastern),** use of organotin compounds against cacao black pod induced by Phytophthora palmivora in. 2318
- **Campoletis sonorensis,** parasitizing Heliothis larvae, microsporidoses of. 7615
- **Canada,**
  - additions to autoecious Puccinia on Heliantheae in. 7119
  - African trypanosomiasis in. 5639
  - attached algae on artifical and natural substrates in Lake Winnipeg in. 4726
  - change in abundance of ciliates in St. Margaret's Bay. 686
  - crown rust of oats in. 7639
  - damage caused by Scleroderris in plantations and nurseries in. 6919
  - leaf rust of wheat in. 6938
  - life histories of brown algae from. 72
  - list of benthic marine algae of the St. Lawrence Estuary in. 3263
  - occurrence and distribution of zoosporic fungi and Actinomycetales in coastal soils of. 4629
  - occurrence of Phlyctidium scenedesmi on Pediastrum boryanum and Scenedesmus quadricauda in Delta Marsh in. 1332
  - occurrence of Tuberculina maxima of pine stem rust in. 523
  - physiological races of wheat stem rust in. 1622
  - Puccinia hysterium on Tragopogon as new North American rust record in. 6937
  - Sclerotinia in. 2329
  - stem rust of oats in. 6934
  - stem rust of wheat, barley and rye in. 6933
  - survey of peach canker in the Niagara Peninsula in. 6334
  - validation of new Coelomomyces from Marion Lake in. 4731
- **Canada (Alberta),**
  - crown and root rot of birdsfoot trefoil in. 5757
  - disease survey of cereals in. 3794
  - losses from foliage diseases of forage crops in. 2383
  - phytogeography and ecology of Cladoniaceae in. 5931
  - seed infestation of flax with Polyspora lini in. 518
- **Canada (British Columbia),** ecology of epipelic algal communities in. 2540

**Canada (central),** North American blastomycosis in. 3624
**Canada (eastern),** cellular slime moulds in forest soils of. 7681
**Canada (Montreal),** incidence of superficial mycoses at the Hôpital Sainte-Justine in. 2195
**Canada (New Brunswick),** Scleroderris lagernergii in. 5724
**Canada (Ontario),**
  Dinemasporium from. 40
  Eimeria ontarioensis from grey squirrel in. 1962
  epidemiology of Scleroderris lagernergii in. 5725
  Microsporum nanum causing porcine ringworm in. 7584
  Rhizopus arrhizus causing pole rot of flue-cured tobacco in. 5789
  water relations of Cladonia alpestris in spruce-lichen woodland. 531
**Canada (Newfoundland),**
  additions to the benthic marine algal flora of. 6534
  Olpidiopsis antithamnionis from Antithamnion floccosum from. 5283
**Canada (Quebec),**
  diseases of vegetables in organic soils in relation to climate. 519
  prevalence of onion smut in. 506
**Canada (Saskatchewan),**
  losses from cereal diseases and value of disease resistance in. 3075
  Sclerotinia in. 2329
  snow mould of turfgrass in. 5756
  yeasts of the Matador soils of and their ability to use flavonoids. 1167
**Canada (western),**
  air-borne rust inoculum over. 6940
  coccidia of Rocky Mountain bighorn sheep in. 4412
  disease of conifer buds in associated with Dichomera gemmicola. 7078
**Canary Isles,** observations on littoral and sublittoral zonation in. 3248
**Cancer, see also** Carcinoma, **Malignancy.**
  of the cecum, relation to amoebic granuloma. 454
  Pneumocystis carinii in children with. 4489
**Cancer (experimental),** biological product with an inhibitory effect on. 6060
**Cancer (human liver),** relation to dietary aflatoxins. 4437-4439
**Cancer (primary liver),**
  duration of and prevalence of hepatomegaly in Thailand. 4954
  incidence of in 2 municipal populations of Thailand. 4953
**Cancer (swamp),** in horses. 2936
**Cancer chemotherapy,** microbiological evaluation of patients undergoing. 1329
**Candidiasis,**
  broad-spectrum antibiotic therapy and prevention of in surgery. 1684
  in burn patient. 4447
  in chronic bronchitis, importance of. 5007
  examination of the fundus uteri in. 4470
  in humans, 5-fluorocytosine in. 441
  with hypoparathyroidism and Addison's disease, case report of. 7538
  microbiology and immunology of. 1657, 1687
  of the newborn. 1023
  of the newborn, observations and review. 753
  in newborns and young children, epidemiology of. 2841
  of the oesophagus. 2191
  opportunist infections with. 3597
  oxytetracycline in the treatment of. 434
  resistance of to 5-fluorocytosine. 6818
  serodiagnosis of. 4421
  serology of. 7506
**Candidiasis (buccal),** after the use of drugs other than antibiotics and cortisones. 5006
**Candidiasis (chronic granulomatous),** immunolog cal features in and treatment with transfer factor. 7531
**Candidiasis (chronic muco-cutaneous),**
  associated abnormalities of iron metabolism i 5013
  case report associated with thymoma. 3640
  immunodeficiencies in. 5596
  influence of thyroid status on. 6822
  inhibition of Candida albicans growth by iron-unsaturated lactoferrin in relation to. 2729
  thymic transplantation in a case of. 437
  transfer factor in treatment of. 5008
  treatment by immunological reconstitution. 28
  treatment of with leucocytes from HL-A compatible sibling. 2884
**Candidiasis (chronic vaginal).** 1677
**Candidiasis (cutaneous),** in infants, efficacy of nystatin topical cream in the management 5617
**Candidiasis (digestive),** frequency of in pulmonar tuberculosis. 3641
**Candidiasis (disseminated),** in surgical patients. 6258
**Candidiasis (experimental),**
  course of with radioactive phosphorus-labelle Candida albicans in mice. 1061
  serum protein patterns in. 465
**Candidiasis (familial),** defective delayed hypersensitivity and ACTH deficiency in. 7544
**Candidiasis (fatal pulmonary).** 4445
**Candidiasis (generalized),** treatment of with 5-fluorocytosine. 5625
**Candidiasis (hyperkeratinised),** of pseudoepitheli of the lower lip developing over 30 years. 6254

**Candidiasis (oesophageal),** and carcinoma of oesophagus. 1024
**Candidiasis (pulmonary),** 2894
  problems in the treatment of. 1021
**Candidiasis (recalcitrant),** of the nails. 1692
**Candidiasis (renal),** 2890
  complication of caeco-cystoplasty by. 7527
**Candidiasis (significant genitourinary),** serodiagnosis of. 6253
**Candidiasis (skin),** high incidence of in Puerto Rico. 6775
**Candidiasis (systemic),**
  comparison of latex agglutination test and immunodiffusion test in the diagnosis of. 4970
  diagnostic challenge of. 7541
**Candidiasis (urinary),**
  after renal transplantation. 4446, 5012
  5-fluorocytosine treatment of. 7535
  following haemolytic uraemic syndrome. 1019
**Candidiasis (vaginal),**
  effect of gestogenic contraceptive pills on. 432
  in humans. 7533
  methylpartricin in the treatment of. 7529
  oxytetracycline-nystatin in the prevention of. 4450
  relation to vaginal pH, microbiology and cytology. 2889
  treatment of with miconazole. 2886
**Candidiasis (vulvovaginal),** in adolescent girls. 1683
**Candidomycosis,** epidemiology and microbiology of. 1635
**Candiduria (asymptomatic),** prognosis, complications and other clinical considerations. 7539
**Canker,**
  of the Aleppo pine. 3036
  of apple, in Northern Ireland, seasonal release of spores of Nectria galligena from. 3754
  of aspen, insect transmission of Ceratocystis associated with. 6327
  caused by Scleroderris, present day knowledge of the control of. 6922
  caused by Scleroderris lagerbergii, epidemiology of. 6917
  of cocoa. 3751
  on the Katsura-tree, Dothiorella causing. 3037
  on oak trees in Texas. 6949
  of ornamental junipers. 3034
  of peach, survey of in Niagara Peninsula. 6334
  of western flowering dogwood caused by Sclerophoma ambigua. 7643
**Canker (blueberry stem),** factors affecting sporulation and infection by. 4244
**Canker (Ceratocystis),** of aspen. 4543
**Canker (Fusarium),** of yellow poplar in South Carolina, incidence of. 6961
**Canker (hypoxylon),** in aspen, aerial antibiotics failing to control. 1110
**Canker (monochaetia),** of Arizona cypress and redcedar in South Carolina. 2370
**Canker (stem),** uptake and effectiveness of benomyl by tea plant against. 2377
**Canonical correlation analysis,** of abiotic and biotic variates in insect-infested grain bulks. 3828
**Cap (sterile part of),** of Agaricus bisporus, metabolism of $^{14}$C-arginine in. 6619
**Cap morphology,** in normal and branched Acetabularia mediterranea, statistical studies on. 4666
**Capacity use-dilution test,** disinfectant evaluation by. 3554
**Capillaria infection,** in the hen, effect of sublethal irradiation on. 2747
**Capillary tube migration test,** delayed hypersensitivity to Candida albicans in man demonstrated by. 4916
**Capitate appendages,** on Scenedesmus cell walls. 2436
**Capitophorus horni,** natural control of populations of by Hymenoptera and Entomophthorales. 6285
**Capreolus capreolus,** investigation of Coccidia of. 3724
**Capsicum frutescens,** Capsidiol from. 7406
**Capsidiol,** as an antifungal compound from Capsicum frutescens. 7406
**Capsium annuum,** infected with tobacco mosaic virus, rhizosphere microflora of. 6326
**Capsule,**
  in vitro phagocytosis and intracellular fate of Cryptococcus neoformans with. 4858
  of yeasts, polysaccharide composition and polysaccharides of. 227
**Capsules (micro),** in microorganisms, detection of and control decapsulation by microelectrophoresis. 3170
**Captafol,** effect of on microflora of potato leaves. 7621
**Captan,**
  control of Helminthosporium stripe of barley by. 5112
  control of Nectria decay of apples with postharvest dip with. 2411
  control of Pithomyces by. 5121
  control of scab in apple with. 918
  effect on Aspergillus niger in vitro. 6134
  effect on Rhizoctonia solani in vitro. 6138
**Captane,** use of for seed treatments. 3071
**Capybara,** isolation of Trypanosoma evansi from. 4509
**Carabidae,** pathogenesis of entomopathogenic fungi in relation to. 6289
**Carbamates,** control of Pithomyces by. 5121
**Carbamoyl phosphate compartmentation,** in Neurospora. 5974
**Carbamylation,** modifications of the $NH_2$ terminus and lysine residues by. 5970
**Carbaryl,** hydroxylations of by soil fungi. 4225

**Carbides (carcinogenic),** effect on lipid structure of the protoplastic and mitochondrial membranes of Saccharomyces cerevisiae. 4291
**Carbodiimide (radioactive),** chemical modification of pseudouridylic acid in valine tRNA 1 from Torulopsis utilis with. 5954
**Carbofuran,** effect on stalk rot of corn. 327
**Carbohydrate,**
  of Acetabularia. 4150
  change in in tomato fruits after fungal infection. 509
  endogenous utilization of during synchronous encystment of Phytophthora palmivora zoospores. 1269
  of laver, relationship between chemical constituents in environmental factors. 791
  in marine algae, depression of by urea herbicides. 1546
  movement of from alga to the fungus in Peltigera polydactyla. 4164
  from Phaeocystis poucheti, production of. 3357
  promotion of stipe elongation in isolated Flammulina velutipes fruit bodies by. 5561
  regulation of glutamate dehydrogenases in Neurospora crassa as response to. 1980
  relationship between content of and enzymatic activity in yeast invertase. 1991
  of Schizosaccharomyces pombe, changes during the cell cycle of. 2003
  of Tribonema aequale. 7277
**Carbohydrate (dissolved),** of some biotopes in the littoral zone of the sea. 5912
**Carbohydrate (extracellular),** from Phaeocystis poucheti, relation to growth. 2477
**Carbohydrate (free neutral),** in Agaricus bisporus, qualitative and quantitative analyses of. 2663
**Carbohydrate (minor wort),** fermentation of by brewing yeasts. 2145
**Carbohydrate (storage and cell wall),** in Cystoseira stricta, analysis of. 3358
**Carbohydrate (soluble),** of Acetabularia mediterranea cells, metabolism of. 6623
**Carbohydrate (various),** growth and structural transformation of Dictyococcus cinnabarinus with. 3567
**Carbohydrate composition,**
  of Saccharomyces cerevisiae under growth limitation, regulation of. 5389
  of Sclerotinia sclerotiorum, effect of carbon source on. 1592
**Carbohydrate cycle (annual nannoplankton),** in Barataria Bay, Louisiana. 6043
**Carbohydrate free media,** for Crithidia. 2131
**Carbohydrate-metabolizing enzymes,** studies on. 1992
**Carbohydrate metabolism,**
  during basidiospore germination in Schizophyllum commune, isotopic studies of. 5391
  in Chaetomium globosum. 6044
  in lichen. 4202
**Carbohydrate nutrition,** in Chlorella vulgaris, studies on the change in soluble proteins and some isoenzymes depending on various conditions of. 5368
**Carbohydrate physiology (ethanol soluble),** of Claviceps purpurea sclerotia, effect of temperature on. 2719
**Carbomycetaceae,** taxonomy. 23
**Carbon,**
  accompanying uptake of amino acids by marine phytoplankters, extrusion of. 3565
  effect of on algal growth. 6745
  effect of form of nitrogen on the assimilation of in Chlorella vulgaris culture. 6167
  effect of source of in the medium on malate dehydrogenases and fumarase activity in yeasts. 1591
  effect on submerged production of Agaricus campestris mycelium. 1593
  effect of Tween 80 as sole source of on growth of Neurospora crassa. 1589
  fate of in the glucose pool of rumen digesta. 1463
  formation of glutaric and adipic acids from N-alkanes with odd and even numbers of. 1469
  glycolytic intermediates of Chlorella with differences in nutrition of. 2810
  liberation of by Trichomonas vaginalis during anaerobic culture. 4343
  in Parmelia phycobionts, distribution of and thallus growth in. 103
  relation to eutrophication of freshwater lakes. 2539, 3566
  utilization of by Cytospora cincta. 6172
  utilization by Pyricularia oryzae in cultures. 2126
**$^{14}$Carbon,**
  in the food chain glucose-Azotobacter agile-Tetrahymena pyriformis. 383
  incorporation of into polysaccharides metabolize by Fucus vesiculosus during pulse labelling experiments. 4200
  radiotracer technique involving for estimating the assimilation efficiencies of aquatic, primary consumers. 4312
  use of translocation by microorganisms in soil. 530
**Carbon (activated),** adsorption of sporidesmin by. 6643
**Carbon (assimilated),** of Acetabularia mediterrane effect of red and blue light on distribution of. 4234
**Carbon (dissolved organic),** in the inshore waters of the Menai Strait, seasonal variation of in relation to primary production. 4357
**Carbon (labelled),** pattern of incorporation of into free amino acids and proteins during yeast cultivation on hydrocarbon. 7273

$^{14}$**Carbon (photosynthetic)**, effect of growth hormones and fertilizers on incorporation of in marine algae. 3444

**Carbon 4 acids**, in Euglena gracilis dividing cells, carbon dioxide fixation via. 274

**Carbon amendments**, effect of survival in soil and zoospores of Phytophthora cactorum. 4616

$^{14}$**Carbon assimilation**, in spring wheat, effect of general yellow rust infection on. 3012

**Carbon catabolic pathways**, changes in during synchronous development of Aspergillus niger conidiophores. 6508

**Carbon dioxide**,
  degradation of dieldrin to by Trichoderma koningi. 5771
  diurnal dynamics of the assimilation of in certain lichens of the forest-tundra of the Transural region. 6072
  effect on cellulolytic activity of fungi. 302
  effect on $^{32}$P-labelling of polyphosphates and organic phosphates in Ankistrodesmus braunii in the light. 2710
  evolved from soils in closed systems, gas chromatographic determination of. 4922
  liberation of during the microbiological decomposition of fulvic acids. 6077
  liberation of by Trichomonas vaginalis during anaerobic culture. 4343
  microbial degradation of DDT metabolites to. 7716
  size, composition and fine structure of Cyanidium caldarium cultured under. 2426

**Carbon dioxide (radioactive)**, uptake of by soil microorganisms in situ. 5763

**Carbon dioxide fixation**,
  in division of Euglena gracilis. 274
  by isolated Euglena gracilis chloroplasts. 5428, 5429
  in Laminaria saccharina. 4154

**Carbon dioxide fixation (dark)**, effect of ammonium ion on in phytoplankton from low nutrient sub-tropical water. 4153

**Carbon dioxide fixation (light)**, relation to dark carbon dioxide fixation by marine algae. 4152

**Carbon dioxide incorporation (blue light-induced)**, in Chlorella, effect of dark preincubation and chloramphenicol on. 2690

**Carbon dioxide supply**, effect on chloroplast structure of Chlorella pyrenoidosa. 4846

**Carbon disulphide**, effect on Egyptian soil fungi. 2396

**Carbon fixation**, in Cassiopea at Aldabra Atoll. 5916

$^{14}$**Carbon-labelled assimilates**,
  effect of loose smut of wheat on distribution of. 3018
  effect of loose smut of wheat on utilization of. 3019

$^{13}$**Carbon-labelled chlorophyll and $^{13}$C-labelled algae**, electron spin resonance in. 7719

$^{14}$**Carbon-labelled precursors**, use of in screening of cytotoxic action of fungus filtrates on Ehrlich's ascites carcinoma. 2792

**Carbon labelling**, of metabolic pathways in Tetrahymena cells. 247

**Carbon metabolism**, in Chlorella pyrenoidosa during photosynthesis and respiration, regulatory effects of ammonia on. 4194

$^{14}$**Carbon method**,
  acrylic plastic and Jena glass bottles used in measuring phytoplanktonic primary production by. 7438
  of primary production measurement, retention of dissolved compounds by membrane filters as error in. 4905

**Carbon monoxide**,
  production by microorganisms. 282
  uptake of by soil fungi. 3845

**Carbon/nitrogen**, in light and darkness, effect on photomorphogenesis of Aspergillus giganteus. 6645

**Carbon nitrogen ratio**,
  effect on growth, pycnidia, and pycnidiospore formation in Diplodia natalensis and Botryodiplodia theobromae. 3467
  growth response of Alternaria tenuis to differences in. 5562

**Carbon nutrition**, in Anabaena doliolum and Fischerella mucicola. 4695

**Carbon replica**, use of for fine structure study of Trypanosoma congolense. 5855

$^{14}$**Carbon sorbose transport**, in Neurospora crassa. 3359

**Carbon source**,
  effect on biosynthesis of litmocidine by Streptomyces litmocidini. 379
  effect on growth of Cochliobolus sativus. 4935
  effect on growth, sclerotium formation and carbohydrate composition of Sclerotinia sclerotiorum. 1592
  effect on growth and sporulation of Claviceps microcephala. 5559
  effect on vegetative growth of Fomes and Ganoderma. 3572
  effect on on yeast synthesis of alcohol dehydrogenases. 4360
  for Pullularia pullulans, utilization of for the elaboration of extracellular polysaccharides. 961

**Carbon source (different)**,
  content and digestibility of protein in fodder yeast cultivated with. 4363
  study of lipoprotein complex of envelopes of yeast grown in media with. 4171

**Carbon source (major)**, effect of changes in on the fatty acids of Euglena gracilis. 5556

**Carbon source (organic)**, circadian rhythm changes in autotrophic Euglena induced by. 6086

**Carbon source (various)**, growth and sporulation of Botrytis convoluta with. 7445

- **Carbon source starvation,** cellular senescence in yeast caused by. 7468
- **Carbon-substance activities,** of related glycopeptides from fungal, parasitic and vegetable sources. 5595
- **Carbon substrate (sole),** growth of yeast on methanol as. 3575
- **1-Carbon units,** in Penicillium roqueforti, metabolism of. 5354
- **Carbon utilization (dissolved organic),** in size-fractionated algal and bacterial communities. 7464
- **Carbonyl compounds (volatile),** changes of in apples caused by microbial infection. 5797
- **20-Carbonyl group,** of C-21 steroids, reduction of by Fusarium solani spores. 4814
- **Carbonylic compounds,** activation of leucine carboxylase of marine Rhodophyceae by. 4765
- **Carboxin,**
  - control of common and dwarf bunt of wheat with. 3013
  - control of Helminthosporium stripe of barley by. 5112
  - control of loose smut of wheat with. 6943
  - control of Sclerotium root rot of sugarbeet by. 337
  - effect on electron transport system of Ustilago maydis and Saccharomyces cerevisiae. 5505
  - effect on solute leakage from hyphae of Rhizoctonia solani. 2105
  - use of for seed treatments. 3071
- **7-Carboxy-3, 4-dihydro-8-hydroxy-3-methylisocoumarin,** from Penicillium viridicatum, isolation and structure of. 847
- **Carboxykinase (phosphoenolpyruvate),** selective inhibition of during respiratory inhibition. 1396
- **Carboxyl groups,** induction of elastolytic activity into Aspergillus sojae alkaline proteinase via electrostatic changes due to modification of. 1415
- **Carboxylase (aminoimidasol),** in Saccharomyces cerevisiae. 7270
- **Carboxylase (leucine),**
  - from marine Rhodophyceae. 4090
  - from marine Rhodophyceae coenzyme specificity in activation by carbonylic compounds. 4765
  - from Polysiphonia urceolata, properties of. 4764
- **Carboxylase (phosphoenolpyruvate),**
  - from Plasmodium berghei, purification and characterization of. 2642
  - in Scenedesmus obliquus, maize and peas, influence of ferredoxin on activity of. 4238
- **Carboxylase (phosphopyruvate),** in Euglena gracilis cell division, activity of. 274
- **Carboxylase (pyruvate),** mutants of Aspergillus nidulans lacking. 2840
- **Carboxylase (ribulose diphosphate),**
  - from autotrophic microorganisms. 5322
  - from Chlamydomonas reinhardtii, purification, properties and mode of synthesis in the cell. 4762
  - of Dunaliela tertiolecta, effects of ammonia and nitrate on. 3443
- **Carboxylase (urea),** as components of ATP:urea amidolyase in Saccharomyces cerevisiae. 4777
- **Carboxylic acids (long-chain di-),** microbial production of from n-alkanes. 4215
- **5-Carboxymethyluridine residues,** in bulk yeast tRNA, cell-free enzymic esterification of. 4079
- **Carcinogen,** loss of feedback control of cholestero synthesis in the precancerous rat liver during treatment with. 7309
- **Carcinogenicity,** of luteoskyrin in cyclochlorotine in mice. 5046
- **Carcinoma,**
  - of the anus and perianal region, amoebiasis simulating. 2914
  - of the bladder, Candida albicans septicaemia after total cystectomy and coloplasty for. 6824
  - differential diagnosis from pulmonary blastomycosis. 6250
- **Carcinoma (bronchogenous),** endobronchial aspergilloma disguising. 1014
- **Carcinoma (Ehrlich's ascites),** screening of cytotoxic action of fungus filtrates on. 2792
- **Carcinoma (oesophageal),** and oesophageal candidiasis. 1024
- **Cardamon,** new Phytophthora disease of. 5716
- **Cardenolide glycoside complex,** changes in caused by parasitic fungi of digitalis. 3388
- **Cardiac vessels,** in Plasmodium falciparum malaria, ultrastructure of parasitized erythrocytes in. 2306
- **Cardiochiles nigriceps,** parasitizing Heliothis larvae, microsporidoses of. 7615
- **Cardiolipin,**
  - use of antibody to study the location of in mitochondrial membranes. 7294
  - in wild type and mutant yeasts, relation to mitochondrial function and development. 235
- **Caribbean,** plankton studies in estuarine environment of. 5907
- **Caribbean marine algae,** nutritive constituents of. 3821
- **Caribbean Sea,** dependence of primary production values on different factors in northeastern part of. 6089
- **Carnation,**
  - direct penetration and passive transport of Phialophora cinerescens spores in xylem of. 3784
  - infected with Phialophora cinerescens, ultrastructural modifications of xylem of. 3785
  - on treated soil infected by Fusarium oxysporur f. sp. dianthi, benomyl migration in. 2374

**arnation (American),** use of benomyl against tracheomycoses of. 2372
**arnation (cultivated),** detection of benomyl and Phialophora cinerescens in stems of. 2373
**arnation rust,** in vitro culture of. 2781
**arnation stems,** infected with Phialophora cinerescens, appearance of heterose substance in. 4593
**arnitine biosynthesis,** in Neurospora crassa, role of lysine in. 799
**arnivores,** nosématosis in. 1747
**arnivores (wild),**
  blood protozoa of in Central Africa. 689
  of Serengeti National Park, incidence of trypanosomes in. 4408
**arolic acid,** from Penicillium charlesii, biosynthesis of. 4222
**arotene,**
  accumulation by Phycomyces blakesleeanus. 725
  disturbed intestinal absorption of in Eimeria acervulina infection in the domestic fowl. 3726
**-Carotene,**
  from Blakeslea trispora, production of. 3409
  in Mortierella ramanniana var. ramanniana M29, production of. 2042
**-Carotene,** of Oscillatoria princeps. 6049
**- and β-Carotene (ordinary and fully deuterated),** mass spectrometric comparison of. 7291
**arotene synthesis,** effect of some inhibitors of on formation of trisporic acids by Blakeslea trispora. 5467
**arotenogenic enzymes,** in Fusarium aquaeductuum, induction mechanism of. 7246
**arotenoid,**
  from Arthrospira and Flexithrix dorotheae. 4804
  from Blakeslea trispora, production of. 3409
  of blue-green algae. 2040
  of the Chaetophorineae. 6050
  from Mucor, presence of. 5401
  in various asporangial yeasts, examination of. 6056
  of Verticillium agaricinum, effect of light on. 1528
**rotenoid (keto-),** from desert soil algal mat, isolation and characterization of. 228
**rotenoid composition,** of Anacystis nidulans, influence of culture temperature on. 2708
**rotenoid pigments,**
  and possible role in reproduction in the sand crab. 7007
  of Sorangium compositum, analysis of. 822
**rotenoid synthesis (light-dependent),** in Fusarium aquaeductuum. 7246
**rp,**
  electrophoretic determination of amylase in the post-embryonic stage of. 3850
  in Israel, common diseases of. 5710
  in winter ponds, occurrence of nonspecific ciliates on. 5299
**Carp (grass),** primary planktonic production in the Trasinet pond before and after stocking with. 1315
**Carp (silver),** protozoan diseases of the fry of. 1079
**Carpophore,**
  of Agaricus bisporus, ultramicroscopic study of viral complex of. 6374
  of Paxillus, comparison of pigments in. 4212
**Carpophore,** inducing factor from seedlings of Vallisneria spiralis. 118
**κ-Carrageenan,** from Gigartina tenella, localization of sulphate groups in. 7280
**Carrot,** diseases of in organic soils of Quebec in relation to climate. 519
**Carrot (stored),** behaviour of with respect to invasion by Rhizopus stolonifer. 7012
**Carthamus (wild),** reaction to rust powdery mildew, Ramularia leafspot and phyllody in Israel. 1765
**Carya illinoensis,** fungicides reducing the incidence of stem blight of. 6989
**Caryological study,** of Bryopsis halymeniae. 7098
**Caryotype (pachytene),** of Neurospora crassa, reconstruction of. 3174
**Caspian Sea,** ciliates from microbenthos of islands of. 7199
**Caspian Sea (middle),**
  ciliata of the mesopsammon of the eastern shore of. 5300
  diatom algae in the bottom sediments of. 6994
**Caspian Sea fish,** trypanosomes from the blood of. 1341
**Cassava,**
  as fungal culture media, comparison with yam and potato dextrose agars. 349
  in Ghana, serious leaf infection of. 5098
**Cassiopea,** at Aldabra Atoll, carbon fixation in. 5916
**Castor,** parasitism and physiology of Alternaria ricini causing blight of. 2348
**Casualties (RVN),** malarial incidence in. 5646
**Cat,**
  chronic nonclinical cerebral toxoplasmosis in. 4528
  cryptococcosis in. 1062
  cyst-induced toxoplasmosis in. 4531
  detection of Toxoplasma and Isospora oocysts in faeces of. 7090
  experimental toxoplasmosis in. 1746, 1749
  extra-intestinal stages of Isospora in. 4520
  systemic mycoses of. 5656
  in New Zealand, incidence and microbiology of otitis externa of. 6218
  Sarcosporidia tenella sporocyst in the faeces of. 3986
  sporotrichosis in. 2947
  systemic mycoses in. 2283
  Toxoplasma gondii isolated from the faeces of. 136

- **Cat, contd.,**
  - toxoplasmosis of in Florence. 2855
  - transfer of Toxoplasma disease from to humans. 6282
  - transmission of Toxoplasma gondii to. 2975
  - transmission of Toxoplasma gondii by. 7501
- **Cat (barn),** relationship of ochratoxin A to foetal death in. 2408
- **Cat (domestic),** toxoplasmosis of. 6319
- **Cat (normal),** occurrence of pathogenic keratinophilic fungi to man on the hair and skin of. 3601
- **Catalase,**
  - activity in blue-green algae and Chlamydomonas reinhardtii. 294
  - of Penicillium vitale, purified preparations of. 5355
  - in Polytomella caeca, localization of. 3308
  - from Tetrahymena pyriformis, biochemical characterization of. 4126
- **Catalase activity,** in Tetrahymena pyriformis subcellular fractions, enhancement of following addition of purified C-reactive proteins. 1994
- **Catalysis,** by ribosome specific transfer factors G, selective inhibition of. 1389
- **Catalytic factor,** for research and transdisciplinary cooperation. 6425
- **Catechol 1,2-oxygenase,** from Trichosporon cutaneum, effect of 1,2-naphthoquinone on. 5356
- **Catechol-adapted sludge,** characteristics of yeasts isolated from. 960
- **Catecholamines,** stimulation of yeast hexokinase by. 7257
- **Catheterization (subclavian vein),** and infection. 5020
- **Cation,** chemotactic effects of on Stentor coeruleus. 2738
- **Cation (external),**
  - effect on chloride activity in Nitella cytoplasm. 2713
  - effects of on membrane potential change of Opalina. 7380
- **Cation (rare-earth),** metabolic effects of on Aspergillus niger cells. 6669
- **Cation activity,** in Nitella vacuole sap, effect of light on. 2060
- **Cation exchange,** in yeast, role of intracellular pH in the regulation of. 4851
- **Catostomus c. commersoni,** Trypanosoma catostomi from. 129
- **Cattle,** see also Calf.
  - abortion in, caused by Aspergillus. 462
  - activity of imidocarb against Babesia infections of. 3722
  - application of the indirect fluorescent antibody test in experimental East Coast fever in. 491
  - bovine mastitis caused by Cryptococcus neoformans in. 1063
  - diagnosis of Babesia argentina infections in using brain smears. 4348
  - duration of immunity to East Coast fever in. 5705
  - effect of a block-treatment regimen using ethidium on trypanosomiasis of. 7594
  - epidemiology of dermatophilosis in in Brazil. 3602
  - epizootiological factors in the control of babesiosis of. 6880
  - evaluation of tick fever outbreaks in northern Queensland in. 1076
  - evidence for Trypanosoma rhodesiense infecti in. 1738
  - experimental diamidine poisoning in. 2292
  - experimental infection with Trypanosoma viva 475
  - experimental mycotic placentitis in produced by Aspergillus fumigatus. 5042
  - fed mouldy sweet potatoes, atypical interstitia pneumonia in. 3699
  - given restricted amounts of barley diet, effects of rumen ciliate protozoa in. 4750
  - growth of Theileria parva-infested lymphoid cells of in irradiated mice. 4527
  - haematology of Trypanosoma congolense infection in. 1071
  - increase of anaplasmosis losses in. 6879
  - indirect fluorescent antibody test for experime tal East Coast fever of. 6239
  - isolated outbreak of trypanosomiasis near the Victoria Falls in. 3711
  - lack of infectivity of Trypanosoma simiae to. 474
  - morphology of Trypanosoma theileri in the blood of. 3714
  - mycotic abortion in. 5658
  - mycotic mastitis in. 4495
  - observations on Eimeria bukidnonensis from. 5225
  - prevention of mastitis in. 7583
  - prophylatic effect of imidocarb against Babesi infection of. 1077
  - relationship of ochratoxin A to foetal death in. 2408
  - similarities between kikuyu poisoning of and experimental mycotoxicoses. 6870
  - studies on Trypanosoma theileri-like trypanosomes of. 1580, 1737
  - the sporocyst of Isospora hominis in. 4709
  - toxic effects of butenolide mycotoxin and of Fusarium tricinctum cultures in. 6294
- **Cattle (Ayrshire),** infection of with Trypanosoma theileri-like trypanosomes. 1737
- **Cattle (beef),** effects of blighted corn silage on. 1814
- **Cattle (dairy),** mycotoxicosis as probable cause infertility in. 2943
- **Cattle (exotic),** theileriasis in in Punjab. 6316
- **Cattle (lactating),** microbial population of straine rumen liquor of after feeding with cluster

**ttle (lactating), contd.,**
  bean and pigeon pea fodder. 5938
**ttle (primarily infected and re-inoculated),** experimental Trichophyton verrucosum infection in. 6299
**ttle Babesia infections,** unsuccessful attempts to establish in white-tailed deer. 3723
**ttle dung,** Coprophilous ascomycetes on. 3086
**ttle sanitation,** in Latin America, problems of. 6780
**uca,** spot disease of soyabeans in. 4598
**uliflower,** fungicides for prevention of clubroot of. 3085
**uliflower disease,** study of. 6944
**-310,** use of experimental animal model as test for. 6284
**anothus limb dieback,** in California associated with apricot pathogen. 2325
**dar (eastern red),** Curvularia intermedius associated with seedling tip blight of. 5104
**dar (red),** in South Carolina, monochaetia canker of. 2370
**LA W 524,** activity and metabolism of. 5508
**lery,** infected with Sclerotinia sclerotiorum, isolation and identification of xanthotoxin and bergapten from. 5727
**lery leaf spot,** methods of assessment of in relation to fungicide evaluation. 944
**lery seed,** Phoma apiicola on. 934
**ll,**
  of Acetabularia mediterranea, sites of photosynthetic metabolism in. 7325
  of Chlamydomonas reinhardtii, three-dimensional reconstruction of based on serial section electron microscopy. 3128
  of Saccharomyces carlsbergensis, effect of number of generations on the accumulation of yeast biomass production of higher alcohols. 5433
  study of in relation to living systems. 6426
**ll (anucleate and multinucleate),** formation of in normal and SV40 transformed WI-38 by cytochalasin B. 7315
**ll (cultured),** inhibition of sugar uptake in by cytochalasin A and B. 5419
**ll (internodal),** of Nitella, permeability of to organic substances measured by the double chamber method. 4204
**ll (living),** loss of recovery of infectious power of Leishmania in absence and presence of. 4342
**ll (mammalian),**
  enucleation of by cytochalasin B. 7312, 7313
  inhibition of the transport of hexoses in by cytochalasin B. 7311
**l (normal),** of Schizosaccharomyces pombe, Golgi apparatus in. 5202
**l (normal and mutant),** electrophoretic analyses of wall glycoproteins in. 7265
**l (plant),** effect of flavocoumarins produced by Aspergillus on ultrastructure of. 3771
**Cell (resting),** of Aspergillus flavus, effect of reducing agents on biosynthesis of aflatoxin by. 4181
**Cell (vegetative),**
  of Dimargaritaceae and Kickxellaceae, histochemistry of the cell wall and septum of. 7063
  of Golenkinia, fine structure of. 7048
  of Thalassiosira constricta. 2433
**Cell (vegetative and reproductive),** of Ulva lactuca, infrastructure of. 6432
**Cell (whole),**
  of Anacystis nidulans, assimilation of nucleic acid precursors by. 698
  of Chlamydomonas reinhardtii, isolation of stable rRNA from. 5306
**Cell (zoenobial),** of Scenedesmus quadricauda during ontogenesis, discontinuity in the growth of. 5866
**Cell culture,**
  gametogony of Sarcocystis in. 2312
  penetration by poultry coccidia, electron microscope study of. 604
**Cell cycle,**
  of Candida utilis, observations on oxygen usage during. 3545
  of Chlorella pyrenoidosa, temporal control of the de novo synthesis of isocitrate lyase during. 5321
  of Chlorella, repair of radiation-induced DNA strand scissions in. 4871
  in Clathrulina elegans. 5897
  cytophotometric and autoradiographic studies on the nuclear apparatus of Colpidium campylum throughout. 1902
  effect of $\alpha$-amanitin and $(NH_4)_2SO_4$ on RNA synthesis in nuclei and nucleoli from Physarum polycephalum at different times during. 7362
  of Euglena gracilis, cyclic replication of DNA and changes in mitochondrial morphology during. 4698
  in haploid yeast, variations in sensitivity to elevated temperature during. 4275
  of Hemicliostyla sphagni, behaviour of multiple macronuclei during. 7137
  in Saccharomyces cerevisiae, regulation of energy flow and control of. 4802
  of Schizosaccharomyces pombe, growth and changes in pool and macromolecular components during. 2003
  of Schizosaccharomyces pombe, synthesis of soluble protein during. 1440
  of Tetrahymena, changes in histone in. 2655
  in Tetrahymena, effect of UV-irradiation on the length of. 7393
  of Tetrahymena, evidence for temporal incompatibility between DNA replication and division during. 5904

- **Cell cycle, contd.,**
  - of Tetrahymena pyriformis, thermoresistance of. 4867
  - use of fractionated yeast populations in study of. 1277
  - in yeast, a review. 2127
- **Cell cycle dependency,** of sporulation in Saccharomyces cerevisiae. 3967
- **Cell differentiation,**
  - of Dictyostelium discoideum, glycogen synthetase and control of glycogen synthesis in. 3313
  - in tetra-sporophytes of Callithamnion roseum. 5874
- **Cell division,**
  - in Anabaena. 7092
  - of Chlorella pyrenoidosa, effect of 8-azaquinine on. 3440
  - of Chlorella pyrenoidosa, liberation of organic substances during. 3345
  - in Dunaliella, temperature optima for. 859
  - in Euglena gracilis, phosphopyruvate carboxylase activity and carbon dioxide fixation in. 274
  - in Euglena, long-term persistence of free-running circadian rhythms of and implications of autosynchrony. 4906
  - of Fusarium culmorum. 3977
  - in heat-synchronized cells of Tetrahymena, effects of temperature and heavy water on. 6116
  - in Histomonas meleagridis. 1925
  - in Labyrinthula. 6497
  - in marine Ceratium. 3204
  - Oscillatoria minima. 557
  - in Physarum polycephalum eukaryotes, control of. 5882
  - in Plasmodium vinckei, synchronization of by photoperiodic rhythm. 1933
  - in starved-refed synchronized Tetrahymena pyriformis. 5318
  - of Stephanodiscus, observations on girdle bands during. 3862
  - in synchronized Chlorella cells, effect of neomycin on. 3495
  - in synchronized Tetrahymena, action of mercaptoethanol on. 4880
  - of synchronized Tetrahymena effect of colcemid on. 6126
  - in Tetrahymena pyriformis, macromolecule synthesis leading to. 1379
- **Cell division cycle,** in yeast, genetic control of. 2171
- **Cell enlargement,** in relation to the development of thallus form in Florideophyceae. 3959
- **Cell free preparation,**
  - from blue-green algae, cytochrome oxidase activity in. 4085
  - of Penicillium lilacinum, side chain degradation and 20-($\alpha + \beta$)-reduction of progesterone by. 7250
- **Cell generation series,** of Schizosaccharomyces pombe, replicating instability in. 3587
- **Cell length,** in related spp of yeast, distribution of. 2461
- **Cell lines (mosquito),** in vitro culture of vector phase of snake haemogregarines in. 5552
- **Cell metabolism,** in Euglena gracilis, influence on pigment composition. 2039
- **Cell morphology,** of blue-green algae isolated fro Cycas revoluta. 7346, 7347
- **Cell movement,** origins, accompanying phenomena and control of. 5175
- **Cell penetration (host),** quinine inhibition of by eimerian sporozoites in vitro. 1559
- **Cell physiology,** environment-mediated changes in the cellular content of the 'pool' constituents and their associated changes in. 5374
- **Cell pool,** of fungi and actinomycetes, free D-amino acids in. 6039
- **Cell pool tryptophan phases,** in ergot alkaloid fermentation. 1479
- **Cell population,** comparative metabolic activity of brain slices of rats infected with pathogenic and non-pathogenic trypanosome evidence by. 6306
- **Cell preparation (broken),** of Gloeocapsa, characteristics of nitrogenase activity in. 6580
- **Cell shape,** of Paramecium aurelia, mutants affecting. 7492
- **Cell surface,**
  - in ciliates, study of. 64
  - of Saccharomyces mellis, recovery of exocellular acid phosphatase after treatment with reagents which affect. 1401
- **Cell surface charge density,** in Dictyostelium discoideum, relevance of to cell aggregatio and morphogenesis. 3144
- **Cell surface ionogenic groups,** in Dictyostelium discoideum, characterization of by cell electrophoresis. 3143
- **Cell synthesis and function,** environmental contro of. 4017
- **Cell wall,**
  - Actinomyces deficient in, complication of leukaemia with. 448
  - of algae, with high ATPase activity, preparatio of. 723
  - of Aspergillus nidulans, biochemical analysis of. 2012
  - of an Aspergillus nidulans mutant blocked in chitin synthesis, relation to assembly in metabolism of. 1626
  - of Aspergillus nidulans, significance of $\alpha$-1, 3-glucan of. 6046
  - of Aspergillus niger, structure of pseudonigera of. 7285
  - of basidiomycetous and related yeasts, comparative study of structure of. 1231
  - of Blastomyces dermatididis dimorphic phases

**ell wall, contd.,**
  protein constituents of. 6620
  of Candida, chemical composition of polysaccharides isolated from. 2013
  of Candida albicans, visualization of new ultrastructural components in. 3169
  of Candida guilliermondii, electron microscopy and roentgen-phase analysis of. 1241
  of Candida macedoniensis, protoplast formation. 635
  of certain plant pathogenic fungi, comparison of ultrastructure and chemical components of. 7082
  of Chaetomium globosum, chemical and submicroscopic structure of. 2562
  of Chaetomium globosum, chemistry and subcellular morphology of. 1220
  of Chlamydomonas, electron microscope and optical diffraction studies. 6
  of Chlamydomonas reinhardtii gametes, autolysis of. 608
  Chlorella, mechanical properties of as determined by the suspension method. 7352
  Chlorella pyrenoidosa, acidic polysaccharide from. 4151
  of coccoid microorganisms isolated from lithophilous lichens, composition of fatty acids in. 6557
  Cochliobolus miyabeanus, chemical structure of chitin like substances of. 1477
  of Cochliobolus miyabeanus, chemical structure of polysaccharides of. 222
  of Cordyceps militaris, analysis of chemical composition of. 3215
  of Dimargaritaceae and Kickxellaceae, histochemistry of. 7063
  of Escherichia coli, degradation of murein-lipoprotein complex of by Dictyostelium amoebae. 4810
  of Fusicoccum amygdali, composition of. 2664
  of Geotrichum candidum, composition of. 592
  of Geotrichum lactis, preparation of protoplasts and use of fluorescence for detection of. 7449
  of Histoplasma capsulatum and Blastomyces dermatitidis, monosaccharide and chitin content of. 224, 1460
  of Kloeckera brevis, subunit structure of phosphomannan from. 4162
  living yeast, degradation of by crystalline enzyme. 4096
  of melon hypocotyls infected with Colletotrichum lagenarium, kinetic study of polysaccharide changes in. 3776
  of Mesotaeniaceae and Gonatozygaceae, structure of. 2435
  of Micrasterias denticulata, fine structure of. 3866
  of Mucor rouxii, hydrolysis of. 7396
  of Nitella, unusual structure in. 3867
  of Oocystis apiculata, fine structure of. 3870
  of Oocystis polymorpha, isolated from culture medium, structure and composition of. 7051
  Phytophthora palmivora, structure and differentiation of. 1270
  of Phytophthora parasitica, cellulose ingrowths in. 20
  of Pilobolus, fine structure of. 7064
  of Piricularia oryzae, chemical structure of. 4163
  of Pleurotaenium trabecula var rectum, composition of. 4130
  of Rhizopus nigricans, acidic polysaccharide from. 4156
  in Rhodotorula, influence of culture conditions on chemical composition of. 212
  of Saccharomyces cerevisiae, study of the phosphate linkages in phosphomannan of. 7284
  of Scenedesmus, capitate appendages on. 2436
  of Scenedesmus obliquus, ultrastructure of. 570
  of Scenedesmus, ultrastructure of as taxonomic character. 5180
  of Scenedesmus, ultrastructure as taxonomic character. 7053
  of Schizosaccharomyces pombe, initiation of synthesis of in parasynchronous cultures. 629
  of a sensitive host, correlation between virulence of Colletotrichum lagenarium and ability to degrade polyglucosides in. 5100
  of Trichophyton mentagrophytes, isolation, composition, and structure of. 1249
  of Valonia, substructure of cellulose microfibrils from. 1297
  of yeast, mercury labelled concanavalin A as a marker in electron microscopy localization of mannan in. 1455
  of yeast, structure of. 4099
**Cell wall (host),** Allomyces, dependence of Rozella penetration on growth response of. 5284
**Cell wall (indiscernible),** of marine algae, method for staining. 6719
**Cell wall alteration,** associated with the hyperproduction of extracellular enzymes in Neurospora crassa. 7222
**Cell wall chemistry,** of fungal cells. 7080
**Cell wall composition,**
  of Blastomyces dermatitidis with differences in virulence for mice. 4751
  of yeast-like and mycelial forms of Paecilomyces viridis. 5517
**Cell wall-degrading endopolygalacturonase,** secreted by Colletotrichum lindemuthianum. 4117
**Cell wall growth,** in Schizosaccharomyces pombe, of β-glucan endo-hydrolase in. 4106
**Cell wall lytic activity,** among microorganisms, distribution of. 7259
**Cell wall mannan,** of baker's yeast, incorporation of 2-deoxy-D-glucose into. 3363

**Cell wall morphology,** of Cylindrospermum spp, effect of lysozyme on. 1503
**Cell wall mutant,** of Chlamydomonas reinhardtii, induction and characterization of. 4870, 4940
**Cell wall organization,** in Chlamydomonas reinhardtii, role of extra-nuclear systems in. 4941
**Cell wall structure,** of Rhodotorula aurantiaca, modification of by culture in the presence of sulphur amino acids. 6677
**Cellobiase,**
  in Neurospora crassa synchronous conidiation, patterns of. 1394
  of Trichoderma koningii, interaction with other components of cellulase complex. 768
**Cellular components,** in pigmented protozoa, destruction of by laser microbeam. 6114
**Cellular dependence,** development of between Amoeba and infected bacteria. 5297
**Cellular energy,** in Neurospora crassa, genetic recombination affected by changes in the supply of. 2156
**Cellular modification,** of Ceramiaceae. 1267
**Cellular organization,** in Klebsormidium. 7049
**Cellular polarity,** of Ceramiaceae, observations and experimental studies on. 5873
**Cellular structures (sub),** in Neurospora crassa, localization of polyphosphatases hydrolyzing polyphosphates to orthophosphates in. 4098
**Cellulase,**
  in Cercosporella herpotrichoides, activity of. 176
  of Fusarium oxysporum f. sp. lycopersici. 6008
  in Myrothecium verrucaria, regulation of production of. 3340
  production of by marine fungi. 4115
  production by Thermomonospora curvata from municipal solid waste compost. 184
  relation to pathogenesis by Cytospora in peach. 3339
  of Trichoderma koningii on native substrates, interactions between components of. 768
  of Trichoderma koningii, purification and properties of the $C_1$ component of. 6011
  of Trichoderma viride, 'de novo' synthesis of induced by sophorose. 769
  in Trichoderma viride, inductive formation of by sophorose. 770
**Cellulase formation,** in Trichoderma viride, catabolite repression of. 7253
**Cellulocutaneous invasion (amoebic),** by Naegleria aerobia, with generalized visceral lesions after subcutaneous inoculation in the guinea pig. 5681
**Cellulololytic activity,**
  of fungi, simple dye release assay for determination of. 5540
  at the margin of Fomitopsis pinicola. 6597
  of marine fungi. 4115
  specific influence of 2, 4-dichlor-phenoxybutyric acid on. 1410
  of thermophilic fungi, agar-diffusion assay of. 2779
**Cellulose,**
  action on aquatic invertebrates. 548
  breakdown of by yeast. 6012
  in Cystoseira stricta, analysis of. 3358
  digestion of in sheep fed extracts of Aspergillus oryzae. 1178
  pure culture of Phialophora radicola and Cochliobolus sativus on, effect of nitrogen on. 378
  technique for measuring microbial damage of by microorganisms. 6152
  wall ingrowth in Phytophthora parasitica. 20
**Cellulose (carboxymethyl),** activities of thermophilous fungi from barley kernels against. 4161
**Cellulose factory (sulphite),** phytoplankton of water polluted by. 6418
**Cellulose synthesis,** correlation of in vitro and in vivo during encystment of Acanthamoeba. 729
**Cellulose textile,** microbial degradation of. 6414
**Cellvibrio,** antimicrobial effects of on blue-green algae. 6128
**Central nervous system,**
  contribution to the pathogenesis of thrombosis in haematogenic infections of by Candida albicans. 1682
  lack of involvement of in visceral cryptococcosis. 4452
  morphology of infections of in perinatal period. 6850
  neuro-ophthalmic aspects of cryptococcosis of. 4454
**Centrifugation,** in density gradients, separation of biological particles by. 6711
**Centrifugation (caesium chloride density),** characterization of DNA of Entamoeba histolytica by. 2576
**Centrifugation (differential and zonal),** of aerobically grown glucose-de-repressed Saccharomyces carlsbergensis, subcellular fractionation by. 3538
**Centrifugation (in situ),** localization and characterization of chromatin in the interphase nucleus of Amoeba proteus with. 3183
**Centrifugation (ultra),**
  effects of on the morphology of Eimeria stiedai sporonts. 3935
  study of subunit structure of cytochrome $b_2$ of Saccharomyces cerevisiae by. 3331
**Centrifugation (zonal),**
  of glucose-repressed anaerobically grown Saccharomyces carlsbergensis, subcellular fractionation by. 4771
  use of yeast populations fractionated by to study the cell cycle. 1277
**Centrioles,**
  in Chlorella. 563

**Centrioles, contd.,**
  lack of in Naegleria. 2474
**Centrocone,** of Eimeria necatrix, ultrastructure of. 3932
**Centrosomes,**
  in Acanthamoeba comandoni and A. astronyxis, taxonomic characteristics of. 53
  during meiosis in Boletus rubinellus. 973
**Cephalin,** of Gregarina embiae parasitic in Monotylota ramburi and Haploembia solieri, ultrastructure of. 7133
**Cephalodia (erumpent),** as apparent case of phycobial influence on lichen morphology. 4746
**Cephalosporin (carbamate),** detection of cephalosporin C acetyl esterase in Streptomyces clavuligerus producing. 4829
**Cephalosporin $P_1$,** isolation and biological activities of. 4191
**Ceramides (neutral glycosyl),** of duck erythrocytes, changes in during infection with Plasmodium lophurae. 5702
**Cercobin,** experience with in Botrytis treatment in viniculture. 6411
**Cercocarpus spp,** ectomycorrhizae from. 48
**Cereal,**
  gradients in horizontal dispersal of rust uredospores of. 3972
  infestation of during importation to Poland. 3115
  survey of in central and Northern Alberta. 3794
**Cereal diseases,** in the maritime provinces. 6907
**Cereal mycology,** use of particles counter in field of. 4924
**Cerebrospinal fluid,** of patients with Trypanosoma gambiense infection, low molecular weight IgM in. 4977
**Cerebrum,**
  chronic nonclinical toxoplasmosis of in cats. 4528
  complications of in malaria tropica. 4968
  decreased deformability of Plasmodium coatneyi-infected red cells and possible relation to malaria of. 5063
  effect of ergot alkaloids on the haemodynamics of in man. 4822
  urea in invert sugar or treatment of malaria of. 2271
  fibrin-degradation products in malaria of. 2261
  invasive amoebiasis of. 3671
  invasive amoebiasis of in children. 3667
  mucomycosis of. 1010
**Ceresan,**
  effect on Aspergillus niger in vitro. 6134
  effect on Rhizoctonia solani in vitro. 6138
**NI Ceresan,** evaluation of against foot-rot of wheat. 2366
**Cerulenin,** effect of on sterol and fatty acid biosynthesis in yeast. 7411
**Cervical inflammation,** as cause of sterility. 4472
**Cervical smears,** squamous cell changes associated with presence of Candida in. 2232
**Cervicothoracic sympathectomy,** mycotic aneurysms of the left subclavian and vertebral arteries as complication of. 1031
**Cervicovaginal secretion (human),** immunoglobulin levels and antibody to Candida albicans in. 6231
**Cervidae,** trypanosome infection in. 3713
**Cervix,**
  amoebic ulcer of. 4473
  trichomoniasis of as sterility factor. 7561
**Cervix (premenopausal),** microbial flora of the external os of. 4958
**Cetacea,** Chonotrichs on epibionts of. 1350
**Ceylon,**
  Anopheles elegans as vector of simian malaria in. 2974
  hepatic amoebiasis in. 3664
  histoplasmin and coccidioidin sensitivity in. 6235
  taxonomy of blue-green algae from. 559
**Chad,**
  cutaneous-mucous leishmaniosis in. 6832
  Oscillatoria from. 1293
  Phycomycosis in. 2876
**Chagas' disease,**
  comparison of antigen from amastigotes of Trypanosoma cruzi and antigen from epimastigotes for the diagnosis of. 1661
  comparison of the latex slide agglutination in complement fixation tests for the diagnosis of. 1578
  denervation of the heart in. 4467
  effect on embryogeny in gravid mice. 1070
  gastrointestinal aspects of. 6835
  motility of sigmoid colon and rectum in. 453
  revision of Trypanosoma cruzi from British Honduras and importance of characteristics in experimental chemotherapy of. 7086
**Chainin,** effect on Drechlarea pedicellata. 336
**Chalk (organic),** of the macrobenthos, relationship to the amount of chalk in the sediment. 7686
**Chalk brood disease,** of honey bees in the USA. 7581
**Champagne wines,** selection of new strs of Saccharomyces vini for the production of. 2173
**Chartreusin,** in Streptomyces, biosynthesis of the aglycone of. 266
**Cheese (cheddar),** effect of mould on growth of coagulase-positive staphylococci in. 3838
**Cheese (Saint-Nectaire),** contribution to study of microflora of and physiology of Geotrichum candidum. 2414
**Cheese factory (Camembert),** accident in caused by Mucorales. 5159
**Cheese whey,** lactose removal from using Saccharomyces fragilis. 6403
**Cheesewashers' disease,** immunological and epidemiological study of. 6776

- **Chelates (1, 10-phenanthroline transition metal),** lethal action of on dermatophytes and Candida albicans. 2754
- **Chemical agents,** in vitro activity of on Toxoplasma gondii. 895
- **Chemical composition,** of Hypoxylon rubiginosum. 24
- **Chemical control,** of induction of monokaryotic fruiting bodies in Coprinus macrorhizus. 2068
- **Chemical estimation,** of filamentous fungi in plant tissue, rapid method for. 4919
- **Chemical sensitization,** effect on repair of potentially lethal irradiation injury in Rhizopus stolonifer sporangiospores. 2085
- **Chemistry,**
  - of the cell walls of Chaetomium globosum. 1220
  - of a Taiga lake. 7160
- **Chemoprophylactic use,** of diformyl diaminodiphenyl sulfone in falciparum malaria. 5033
- **Chemoprophylaxis,** against surra, studies on. 5677
- **Chemoprophylaxis (comparative),** in experimental Eimeria tenella infestation in chicks. 6887
- **Chemostat,**
  - genetic stabilization of yeast in. 1616
  - mixed culture studies with. 4337
  - thermodynamics of. 4927
- **Chemostat (glucose limited),** influence of Crabtree effect on growth characteristics of Saccharomyces cerevisiae in. 4913
- **Chemotactic sensitivity,** in potassium-calcium equilibrium in Stentor coeruleus. 6113
- **Chemotactic substance,** in Dictyostelium discoideum, folic acid as. 5371
- **Chemotactic system,** adenyl cyclase in Dictyostelium discoideum as possible control element of. 5966
- **Chemotactically responding cells,** of Dictyostelium discoideum, membrane-bound cyclic AMP phosphodiesterase in. 6583
- **Chemotaxis,**
  - in aggregating cells of Dictyostelium discoideum. 551
  - of brown algae. 5432
  - in Myxomycetes. 300
  - of Stentor coeruleus, effect of cations and pH on. 2738
- **Chemotaxis test,** comparison of a leucocyte and cellular slime mould by. 928
- **Chemotherapy,** of plant disease. 1758
- **Chemotherapy (experimental),** of Chagas' disease, revision of Trypanosoma cruzi from British Honduras and the importance of str characteristics in. 7086
- **Cherry (sweet),** bruising of resulting in internal browning and increased susceptibility to fungi. 7698
- **Cherry tree (sour),** tests of eradicant fungicides against Sclerotinia laxa on. 5726
- **Chicken,**
  - aflatoxicosis in. 1055
  - biological detection of mycotoxins in. 2948
  - brain lesions in aspergillosis of. 2276
  - changes in activity of intestinal phosphatases during experimental coccidiosis of. 2958
  - changes in bacterial population after caecal coccidiosis of. 1082
  - changes in total, residual and protein nitrogen content in the liver of during experimental coccidiosis. 3731
  - coccidiosis of. 2293
  - comparative chemoprophylaxis in experimental Eimeria tenella infestation in. 6887
  - comparison of single and repeated coccidiosis infections in. 1081
  - diagnostic differentiation between stachybotryotoxicosis and fowl pox. 468
  - disturbed intestinal absorption of vitamin A and carotenes and the effect of low pH during Eimeria acervulina infection in. 3726
  - effect of diets containing Helminthosporium maydis on. 533
  - effect of diet containing Helminthosporium maydis on laying performance of. 534
  - effect of Eimeria species on absorption and metabolism of $^{14}$C-glucose by. 476
  - effect of essential fatty acid deficiency on coccidiosis in. 4517
  - effect of sub-lethal irradiation on coccidia and capillaria infections of. 2747
  - effect of transfer of Heterakis gallinarum larvae among on retention and development of heterakids and liberation of Histomonas and Parahistomonas. 6302
  - fungal flora of the respiratory tract of. 120
  - immunized to Eimeria maxima and cross infected with E. brunetti. 423
  - incidence of coccidia of in Tarai area of Uttar Pradesh. 5589
  - infected with Eimeria brunetti or immunized with Eimeria maxima and cross-infected with Eimeria brunetti, bacterial flora in the alimentary tract of. 5057
  - influence of duodenal coccidiosis on free amino acid content in the muscle of. 1080
  - lack of toxicity of Helminthosporium maydis-invaded corn and culture filtrates to. 1183
  - microbiocidal activity of peroxidaseless heterophile leucocytes from. 4297
  - morphology and distribution of intracellular schizonts in after experimental infection with Akiba caulleryi. 1740
  - naturally infected with Leucocytozoon caulleryi, pathology of. 6891
  - nutritive value of yeast grown on hydrocarbon for. 536
  - ochratoxin toxicity in. 4496
  - parasitized by Plasmodium, relation to erythrocyte morphology. 5064

**hicken, contd.,**
  pathogenicity of Coccidia to. 2298
  pathogenicity of Eimeria mivati in light and heavy infections in. 480
  pathology of chronic respiratory disease in. 4503
  physio-pathology of caecal coccidiosis of. 4981
  relationship of pathogenicity to tobacco leaves and toxicity to of isolates of Alternaria longipes. 4565
  resistance of breeds and breed crosses of to experimental Eimeria necatrix infection. 5058
  schizogony of Eimeria maxima in. 2506
  sensitivity to ochratoxins. 1058
  significance of infection dose, body weight and age of host on pathogenic effect of Eimeria acervulina in. 6885
  study of fluorescent antibodies in experimental coccidiosis of. 5603
  susceptibility to coccidiosis following coccidiostat withdrawal. 424
  Trichophyton simii infection in. 4502
  viability of Cryptococcus neoformans in the gastrointestinal tract of. 5661
  $^{65}$Zn metabolism during coccidiosis in. 2959
**hicken (bacteria-free),** Eimeria tenella in. 7597
**hicken (bacteria-free and conventional),** Eimeria tenella in. 5687
**hicken (broiler),**
  effect of different dietary levels of n-paraffin-grown yeast on growth and food intake of. 5785
  use of fodder yeast in. 5787
  metabolisable energy of yeast grown on pure n-paraffins and its use in rations for. 5784
**hicken (brooder house),** aspergillosis in. 6287
**hicken (buquinolate-medicated),** acquired immunity of to Eimeria tenella infection. 3732
**hicken (laying),** natural and extremely severe occurrence of aflatoxin in. 5041
**hicken (monoflora and diflora),** Eimeria tenella in. 7598
**hicken (young),**
  development of Eimeria acervulina in the caeca of. 5686
  pathogenic effects of Eimeria necatrix in. 3729
**hicken coccidia,** survival and development of in primary chicken kidney cell cultures. 2139
**hicken coccidiostat,** studies on potentiated sulphadimethoxine as. 3727
**hicken eggs (embryonated),** antigenic stability in to Trypanosoma rhodesiense. 2213
**hicken embryo,**
  changes in the allantoic fluid composition during development of in relation to Trypanosoma brucei. 6303
  cultivation of Eimeria tenella on chorioallantoic membrane of. 4349
  culture of toxoplasmas from oocysts of Isospora in. 1746
  effect of changes in the allantoic fluid composition during development of on the viability of Trypanosoma brucei. 5674
  electron microscopical study of Eimeria tenella grown in the liver of. 5226
  incubated at different temperatures, observations on the oocyst production and viability of Eimeria in the chorioallantois of. 5485
  protective effects of transferred serum and cells investigated in infected with Eimeria tenella. 1665
  susceptibility to Plasmodium gallinaceum infection. 2307
**Chicken embryo inoculation,** as pathogenicity test for Candida. 2122
**Chicken feed and litter,** toxigenic fungi from. 7009
**Chicken kidney cell,** comparative development of Eimeria tenella in primary cultures of. 3985
**Chicken kidney cell cultures (primary),** survival and development of chicken coccidia in. 2139
**Chick-pea,** evaluation of for resistance to Ascochyta infection. 6352
**Children,**
  allergy to Candida albicans in. 5621
  cerebral invasive amoebiasis in. 3667
  clinical aspects of intestinal amoebiasis in. 3669
  clinical aspects of invasive amoebiasis in. 3670
  incidence of Candida albicans in the plaques of teeth of. 4741
  local treatment of cutaneous infections in. 7534
  localization of invasive amoebiasis in. 3665
  with malaria, immunosuppression in. 2215
  with malignant disease, Pneumocystis carinii in. 4489
  pulmonary aspergillosis in. 6810
  screening of immunological competence in. 6233
**Children (Thai),** with acute disease of unknown aetiology, aflatoxins in autopsy specimens from. 2225
**Childrens' collectives,** distribution of Dientamoeba fragilis in. 7562
**Chile,**
  Clavariaceae from. 6548
  Gasteromycetes and Agaricales of. 7183
**Chimeras (induced),** in Ulva mutabilis. 4371
**Chimpanzee,**
  experimental infections of with Trypanosoma. 2954
  Geotrichum and yeasts of oral cavity of. 6866
  necropsy findings in a fatal case of amoebiasis in. 3715
  in the wild in East Africa, Rhinophycomycosis entomophthorae occurring in. 5039
**China,** freshwater diatoms from. 3125
**Chinchilla,** Eimeria from. 2294
**Chinoline (2,3-dioxy-4-phenyl),** from Penicillium cyclopium, synthesis of. 4186
**Chinozol,** microflora in cases of chronic highmoritis and sensitivity to. 5021

- **Chitin,**
  - of Candida. 1459
  - of Cochliobolus miyabeanus cell walls, chemical structure of. 1477
  - in Histoplasma capsulatum and Blastomyces dermatitidis cell walls, content of. 1460
  - mode of inhibition of Rhizoctonia solani in, soil amended with. 1169
  - in Mucor rouxii, synthesis of. 157
- **Chitin insertion,** effect of protein synthesis inhibition and osmotic shock in hyphal wall synthesis in Aspergillus nidulans. 94
- **Chitin synthesis,** lysis of an Aspergillus nidulans mutant blocked in. 1626
- **Chitin synthetase,**
  - in the initiation of septum formation in yeast. 86
  - in Mucor rouxii, cellular localization of. 157
  - from Mucor rouxii, properties of. 159
- **Chitinase,** in Coprinus, function of in autolysis. 1405
- **Chitinase system,** of Chytriomyces hyalinus, studies of using $^{14}$C-chitin assay. 5969
- **Chlamydospores,**
  - of Alternaria porri f. sp. solani, existence of as overwintering propagules in soil. 3088
  - of Thielaviopsis basicola, survival of as affected by volatile soil fungicides. 7414
  - of Verticillium, development of. 2502
- **Chlamydospores (large),** Pythium with. 1853, 3148
- **Chlamydospore formation,**
  - and lysis of macroconidia of Fusarium solani f. cucurbitae in chitin-amended soil. 3978
  - in Phytophthora parasitica sporangium-free liquid cultures. 2488
- **Chlamydospore-test,** for laboratory work with Thielaviopsis basicola. 3791
- **Chloramphenicol,**
  - antagonistic effects to phalloidin and $\alpha$-amanitin. 2939
  - effect on blue light-induced $CO_2$ incorporation in Chlorella cells. 2690
  - effects on chloroplast and mitochondrial ultrastructure in Ochromonas danica. 4881
  - effect on growth and development of nitrogen fixing blue-green algae. 4694
  - effect on growth and mitochondrial function of Tetrahymena pyriformis str ST. 92
  - effect on lipid synthesis during respiratory development in Saccharomyces cerevisiae. 330
  - effect on rhythmic mycelial growth in Podospora anserina. 625
  - effects of on ultrastructure of mitochondria in sensitive and resistant Paramecium. 6707
  - low temperature difference spectra of mitochondria from Aspergillus mycelia grown with and without. 4214
  - in the treatment of pulmonary mycoses. 2241
- **Chloramphenicol-inhibited growth,** of Tetrahymena pyriformis str ST, sedimentation characteristics of mitochondria peroxisomes and lysosomes from. 921
- **Chloramphenicol inhibition,** in Neurospora crass effect on mitochondrial biogenesis. 965
- **Chloramphenicol isomers,** effects of on enzyme and lipid synthesis induced by oxygen in wil type and petite yeast. 5502
- **Chloramphenicol resistance (nuclear and cytopla mic inheritance,** in Saccharomyces cerevis effect of suppressor factor on. 5572
- **Chloramphenicol-treated Neurospora crassa,** clo correlation between antimycin titre and cytochrome $b_T$ content in mitochondria of. 7399
- **Chlorate,** action of Chlorella fusca on. 860
- **Chlorhexidine dihydrochloride,** in vitro effect of against pathogenic and non-pathogenic free living amoeba and on anaerobic amoeba. 7421
- **Chloride,**
  - vacuolar fluxes of in Nitella translucens. 550
  - microbial degradation of DDT metabolites to. 7716
- **Chloride activity,** in Nitella cytoplasm, effects o external cations on. 2713
- **Chloride fluxes,** of Chaetomorphus. 1199
- **Chloride solutions,** gold precipitation from by moulds. 7723
- **Chlorination,** of power plants, impact on phytoplankton production. 6647
- **Chlorine relationships,** of Enteromorpha intestin lis. 4203
- **1-p-Chlorobenzyl-7-azaindole-3-$\alpha$-piperidyl-methanol,** synthesis of as potential antimal ial agent. 2965
- **Chlorocholine-chloride,** effect on Fusarium and Verticillium wilt of tomato. 1138
- **Chlorogenic acid,** effect on spore germination of Colletotrichum falcatum. 914
- **3-Chlorogentisyl alcohol,** from Penicillium canadense. 4221
- **p-Chloromercuribenzoate,** effect on the cyclosis Paramecium. 3478
- **Chloroneb,** control of Sclerotium root rot of sugarbeet by. 337
- **2-p-Chlorophenyl-2-4-piperidyl-tetrahydrofuran** structure and antimalarial activity of. 490
- **Chlorophyll,**
  - in brown algae and diatoms, fluorescence of. 1828
  - of the Chaetophorineae. 6050
  - fluorescence kinetics of in pigment mutants o Chlamydomonas reinhardtii. 6181
  - and primary production in the near-shore zon of the Barents Sea. 7330
- **Chlorophyll (bacterio-),** in gliding filamentous prokaryotes from hot springs. 276
- **Chlorophyll ($^{13}$C-labelled),** electron spin resona in. 7719

**lorophyll a,**
in algae, pH control of fluorescence of. 272
of blue-green alga. 192
in Chlorella, metabolic pathway for. 1486
from Synechococcus lividus, kinetics of in relation to changes in response to light intensity. 7349
**lorophyll a and b content,** in leaves of Phaseolus aconitifolius, changes in after infection by Colletotrichum truncatum. 4577
**lorophyll b fluorescence,** in green algae at room temperature. 4835
**lorophyll $c_1$ and $c_2$ (crystalline),** from marine algae, preparation and properties of. 7334
**lorophyll-deficiency,**
in Chlamydomonas reinhardtii, analysis of interaction of mutants for. 4943
in Chlamydomonas reinhardtii, investigations of the patterns of inheritance of mutations of. 2152
**lorophyll fluorescence induction,** in Scenedesmus at oxygen deficiency. 4198
**lorophyll maxima,** relationships of to density structure of the Atlantic Ocean and Gulf of Mexico. 5275
**lorophyll-proteins,** and reaction centre preparations from photosynthetic bacteria, algae and higher plants. 1490
**lorophyll synthesis,** in Euglena, absence of phytochrome participation in. 6071
**orophyllase,** in marine algae, occurrence of. 1390
**orophyllide c,** yellow-green algae with. 4837
**oropicrin,** effect of on infection of potatoes by Verticillium albo-atrum. 2398
**oropicrin + methyl bromide,**
control of Fusarium wilt of petunia with. 513
fumigation of Phytophthora in sandy soil by. 3084
**oropidae,** attacking Agaricales in Hungary, systematic and ecological studies on. 6546
**oroplast,**
of Acetabularia, activity of in continuous light and in light-dark cycles. 6659
of Acetabularia, impurities in preparations of. 4833
of Acetabularia mediterranea, sites of photosynthetic metabolism in. 7325
in Acetabularia, nuclear dependency of proteins of. 3343
of algae, orientation of photosynthetic pigments in. 7328
of algae, symbiosis in sacoglossan opisthobranchs with. 7688
of antibiotic-sensitive and resistant Chlamydomonas reinhardtii, dihydrospectinomycin binding to ribosomes of. 6690
change in amino acid of in rice leaf infected by Helminthosporium oryzae. 4592
of Chlamydomonas, effect of lipase on. 2711
of Chlamydomonas reinhardtii, cyclization of DNA fragments of. 5942
of Chlamydomonas reinhardtii, site of synthesis of cytochromes in. 5367
of Chlamydomonas reinhardtii, transcriptional mapping of rRNA genes of. 3580
of Cladophora and Chaetomorpha, fine structure of. 5182
of Cyanidium caldarium, structure of. 4809
of Euglena, early development of. 5235
of Euglena gracilis, action of antibiotics on. 5498
of Euglena gracilis, carbon dioxide fixation by. 5428, 5429
of Euglena gracilis, distribution of ribosomes among. 6433
of Euglena gracilis, evidence for a 2-directional hydrogen ion transport in. 275
of Euglena gracilis, isolation of active polyribosomes from. 6146
of Euglena gracilis, homology between. 4372
of Euglena gracilis, isolation and molecular weight of circular DNA from. 3293
extra chromosomal inheritance in. 4394
in Euglena gracilis, rDNA satellite of DNA of. 699
of isolated Euglena, light activation of Mg$^{2+}$-dependent ATPase in. 4089
of Prorocentrum micans, DNA structures of. 1361
of Prorocentrum micans, use of proteases for improved presentation of DNA in. 1563
in Rhizoclonium hieroglyphicum Kutz, structure of. 9
in Scenedesmus mutants, pigments and proteinaceous components of. 384
of spinach and Chlamydomonas, effect of lipase on. 2711
of Vaucheria sphaerospora, modifications to after continuous illumination. 7046
of wheat leaves infected with black rust, ultrastructural alterations in. 1768
of Zygnema, peculiarities of structure in. 1208
**Chloroplast (helical),** in Stichococcus-type alga. 7055
**Chloroplast (spinach),** enzyme reactions involved in photosynthetic sulphate-reduction in cell-free systems of. 4087
**Chloroplast (symbiotic),** photosynthetic products and contribution to mucus synthesis in 2 marine slugs of. 5425
**Chloroplast (uncontaminated by nuclear DNA),** of Euglena gracilis, isolation of. 3526
**Chloroplast content,** of barley leaves infected with powdery mildew, decrease in. 3759
**Chloroplast development,** in Euglena gracilis, RNA synthesis during. 2568
**Chloroplast electron transport,** uptake and metabolism of DDT by marine phytoplankton and effect on. 4651

**Chloroplast lamellae composition and function,** in Chlamydomonas reinhardtii, modulation of. 3344
**Chloroplast membrane,**
  of Chlamydomonas reinhardtii y-1-cells, biogenesis of. 5426
  of Chlamydomonas reinhardtii, evidence for synthesis of major polypeptide in cytoplasm as soluble component of. 1996
  of Chlamydomonas wild type and mutant strs, structural differentiation of stacked and unstacked. 7
**Chloroplast movement,** reversible inhibition of by cytochalasin B in Mongeotia. 5461
**Chloroplast ribosome deficient mutants,** in Chlamydomonas reinhardtii. 5569
**Chloroplast RNA populations,** in dark-grown, light-grown and greening Euglena gracilis. 1360
**Chloroplast structure,** of Chlorella pyrenoidosa, effect of carbon dioxide supply on. 4846
**Chloroplast survival,** and division in vitro. 4316
**Chloroplast ultrastructure,** in Ochromonas danica, effects of Chloramphenicol on. 4881
**Chloroquine,**
  in amoebic dysentery. 1040
  effect of on the erythrocytic forms of Plasmodium berghei. 4522
  effect on uptake and incorporation of macromolecular precursors by Tetrahymena pyriformis. 3519
  effect on Plasmodium knowlesi in vitro. 2764
  lysosomes, pH and anti-malarial action of. 2763
  malaria resistant to. 1715
  resistance to of Plasmodium falciparum from Burma. 7570
  resistance to in Plasmodium falciparum from Philippines. 2267
  sensitivity of amoebae to. 2762
  treatment of amoebiasis with. 2911
  treatment of malaria by. 1714
  treatment of Plasmodium falciparum infections in a semi-immune population in northern Nigeria with. 6280
  use of in prophylaxis of malaria. 2928
**$^3$H-Chloroquine,** high resolution autoradiography of malarial parasites treated with. 5519
**Chloroquine phosphate,** in vitro activity on Entamoeba histolytica. 343
**Chloroquine resistance,**
  in Plasmodium berghei yoelii, effect of PABA on. 6314
  of Plasmodium falciparum in Brazil. 3676
**Chloroquine resistant falciparum malaria,**
  in owl monkeys, activity of chlorinated lincomycin analogues against. 3740
  in Thailand, detection of by in vitro technique. 4351
  in Thailand, tetracycline treatment of. 5647
**Chloroquine resistant malaria.** 3684
**Chloroquine resistant/sensitive Plasmodium falciparum,** effects of tetracycline against. 2265
**Chloroquine sulphate,** in vitro effect of against pathogenic and non-pathogenic free-living amoeba and on anaerobic amoebae. 7421
**Chlorosis-induced metabolites,** of Cladosporium, structure of. 7310
**Chlorosis-inducing substances,** production of by fungus. 4191
**Chlorothalonil,** control of Rhizoctonia blight of Florida Ruffle fern with. 520
**Chlorothalonil + PCNB,** control of Fusarium blight of Merion Kentucky blue grass with. 2362
**Chlorpromazine,** effect on macromolecular synthesis in synchronized Tetrahymena. 15
**Chlorpropham,** effect on Chlorella pyrenoidosa growth. 5496
**Chlortetracycline,**
  treatment of amebiosis with. 2911
  treatment of pulmonary mycoses with. 2241
**Choanephora cucurbitarum,**
  infected with Piptocephalis virginiana, incorporation of tritiated N-acetyl-glucosamine into. 4535
  infected with Piptocephalis virginiana, relationship to parasite. 2321
**Cholera,** work of the World Health Organization in. 2848
**Cholest-4-en-3-one,** in Meristotheca papulosa, occurrence of. 821
**Cholestasis,** in patients with amoebic liver absce 2916
**Cholesteric mesophases,** twisted fibrous arrangements in biological materials and. 7717
**Cholesterol,**
  effect on metabolism of Pythium. 233
  effect on virulence of Entamoeba histolytica to rats. 2955
  metabolism by Paramecium aurelia. 381
  in Ochromonas malhamensis, metabolism of. 4807
**Cholesterol synthesis,** in precancerous rat liver, loss of feedback control of during treatmen with N-2-fluorenylacetamide and aflatoxin. 7309
**Choline,**
  comparison of surface structures of cholineles Torulopsis pintolopesii grown on defined media with. 4859
  as fungal growth stimulants in anthers responsible for the susceptibility of wheat to Fusarium graminearum. 6956
  incorporation into the phospholipids of Neurospora crassa. 196
**Choline (CDP),** from brewer's yeast, production of. 4211
**Choline-$^{14}$C,** as labels for membrane phospholip in Acanthamoeba palestinensis. 830
**Choline interference,** elimination of in microbiolo gical assay of inositol in pharmaceutical

**holine interference, contd.,** products. 3539

**holine-O-sulphate,** Aspergillus nidulans mutants unable to use. 976

**hondrilla juncea,**
  assessment of biological control potential of organisms attacking. 1766
  control of using Puccinia chondrillina. 1767
  measurement of percentage attack of by organisms in the field. 1570

**horioallantoic membrane,**
  of chicken embryos, cultivation of Eimeria tenella on. 4349
  of chicken embryos incubated at different temperatures, observations on the oocyst production and viability of Eimeria in. 5485

**horoid plexus tissues,** of experimentally infected mice, existence of non-flagellated forms of Trypanosoma gambiense in. 4511

**horoiditis (bilateral coccidioidal).** 2875

**horoiditis** (histoplasmic), light coagulation in. 428

**hristmas trees (Scotch pine),** in Wisconsin, brown spot needle blight of. 1114

**hromanones (LL-D253α, -β and -γ novel),** from Phoma pigmentivora. 5446

**hromatin,** of Amoeba proteus interphase nucleus, localization and characterization of. 3183

**hromatographic determination (gas),** of trehalose in yeast. 5395

**hromatographic separation,** of pigments in Spirulina maxima. 7332

**hromatographic technique (dry column),** purification of Gymnodinium breve toxin by. 7323

**hromatography (affinity),**
  on cross-linked pectin acid, selective purification of Aspergillus niger endopolygalacturonase by. 5345
  of yeast pyruvate kinase with Cibacronblau bound to Sephadex G-200. 4783

**hromatography (column),** fractionation in aqueous methanol of partial Ustilago sphaerogena nuclease digests of RNA. 142

**hromatography (double-stepping),** preparative method for isolating tRNA $1^{Val}$ from baker's yeast employing. 1366

**hromatography (elution),** study of Candida tropicalis yeast water-soluble protein by. 4140

**hromatography (gas),**
  determination of carbon dioxide evolved from soils in closed systems by. 4922
  of ergot alkaloids. 1476
  of hydroxy acids from Nocardia corallina. 290

**hromatography (gas-liquid),**
  of mycotoxins of the trichothecene group. 844
  qualitative and quantitative analyses of free neutral carbohydrates in mushroom tissue by. 2663

**hromatography (gas and thin-layer),** for the analysis of mycotoxins. 354

**Chromatography (pyrolysis-gas-liquid),** study of Pleurastrum by. 569

**Chromatography (thin-layer),**
  application of to a study of variation in Puccinia helianthi. 7339
  fading of aflatoxin spots during fluorescence densitometry with. 2120
  identification of Amanita toxins by. 3541

**Chromatoid body helix,** of Entamoeba invadens, three-dimensional structure of. 4691

**Chromatophore,** from Anacystis nidulans, excitation and fluorescence spectra of. 2579

**Chromatophore (highly organized),** of Cocconeis, plastic remodelling of during cell division and cell organization. 6482

**Chromatophoric material,** associated with DNA photoreactivating enzyme from baker's yeast, spectral properties of. 2608

$^{51}$**Chromium,** radiotracer technique involving for estimating the assimilation efficiencies of aquatic, primary consumers. 4312

**Chromomycosis,** 6812
  treatment with thiabendazole. 2245

**Chromone metabolites,** from Cylindrocarpon. 5443

**Chromosomal alternation of generations,** of Alaria from North America. 3135

**Chromosomal elements (extra),** in a super-suppression system of yeast. 5583

**Chromosomal inheritance (extra),** hereditary symbionts, mitochondria, chloroplasts in. 4394

**Chromosome,**
  of Prorocentrum micans, use of proteases for improved presentation of DNA in. 1563
  radiobiological reactions of amoebae with small amounts of. 2746

**Chromosome (polytene),** effect of α-amanitin on RNA synthesis. 833

**Chromosome (salivary gland),** metabolic DNA in. 5958

**Chromosome (sex),** of Wrangelia argus. 4373

**Chromosome location,** of genes for leaf rust resistance in common wheat. 2177

**Chromosome numbers,** in Charophyta, significance of. 3579

**Chromosome replication (blocked),** recombination during in temperature-sensitive Ustilago maydis. 6210

**Chromosome segment (inverted),** effect of on intragenic recombination in another chromosome of Sordaria brevicollis. 6209

**Chromosome structure,** in eukaryotes, and recombination. 1607

**Chrysanthemum,**
  aetiology and chemotherapy of Pythium root rot on. 2987
  Verticillium wilt of. 3069

**Chu medium,** for growing Chlorella pyrenoidosa. 346

- **Cibacronblau**, bound to Sephadex G-200, affinity chromatography of yeast pyruvate kinase with. 4783
- **Cilia**,
  - existence of breaking point in. 2423
  - of Nassula, development and deployment of. 1934
  - resorption of. 2511
  - of Tetrahymena, heterogeneity of microtubule proteins from. 1447
  - transient analysis of dual enzyme reaction in. 7037
- **Cilia (pseudo)**, in Tetraspora lubrica, ultrastructure of. 1841
- **Ciliary movement**,
  - bioelectric control of. 5810
  - of Paramecium, modification of by calcium ions. 4864
- **Ciliary rows**, constancy of cortical units in Tetrahymena with varying numbers of. 3947
- **Ciliates**,
  - vertical distribution in freshwater sediments. 135
  - absence of in rumen of growing lambs, effect on. 492
  - effect of ruminal infusion of acetic acid and sodium acetate on the concentrations of. 4865
  - importance of in activated sludge. 694
  - surface patterns and organelles, study of. 64
- **Ciliate Type-Specimens (International Collection of)**, current status of and guidelines for. 5229
- **Ciliatine**, in Tetrahymena, intracellular distribution of. 2706
- **Ciliature (infra)**, of Gastrostyla steinii, fine structure of. 3944
- **Cinematographic recording**, of Paranaplasma caudata and Plasmodium gallinaceum. 5809
- **Circadian rhythm**,
  - in Gonyaulax polyedra, no desynchronization among. 3446
  - in whole and anucleate Acetabularia. 1826
- **Circadian rhythm (free-running)**, of cell division in Euglena, long-term persistence of and implication of autosynchrony. 4906
- **Circadian rhythm changes**, in autotrophic Euglena induced by organic carbon sources. 6086
- **Cirri (bifurcated and barbed)**, Mesodinium fimbriatum with. 3195
- **Cisternae**, of Amoeba proteus Golgi apparatus, connection with the granular endoplasmic reticulum. 3182
- **Cisternae (bifacial)**, of Tetrahymena pyriformis, formation of. 1260
- **Cistron (ftr)**, of Coprinus, genetic fine structure, site clustering and marker effecting. 7486
- **Cistron (ribosomal)**, in Saccharomyces cerevisiae, use of disomic strs to study the arrangement of. 5949
- **Cistron (single)**, for rRNA in Neurospora. 3296
- **Citcop 4E**, control of corn blight by. 1154
- **Citrate**, of aerobic yeasts, rhythmic changes of. 867
- **Citreoviridin**, production of by Penicillium pulvillorum. 3385
- **Citric acid**, production of from n-paraffins by fluoroacetate sensitive mutants of Candida lipolytica. 5441
- **Citric acid cycle**, intermediates of, control of extracellular ribonuclease and enzymes involved in nitrogen assimilation by. 746
- **Citric acid production**, by Aspergillus niger, mitochondrial activity during. 6605
- **Citric acid synthesis**,
  - by Aspergillus niger auxotrophic mutants, induction by UV. 977
  - by Aspergillus niger heterozygous diploids, genetics of. 978
  - by forced heterocaryons between Aspergillus niger auxotrophic mutants, genetics of. 979
- **Citrulline accumulation**, in Neurospora crassa and Schizosaccharomyces pombe, genetical control of. 2158
- **Citrullus fanatus**, charcoal rot of. 5117
- **Citrus aurantifolia**,
  - diseases caused by Colletotrichum gloeosporioides in. 510
  - studies on Colletotrichum gloeosporioides incitant of withertip, leafspot and fruit rot of. 4574
- **Citrus decline**, in Iran, pythiaceous fungi associated with. 7625
- **Citrus disease complex (new)**, in Tanzania. 6963
- **Citrus fruit**,
  - germination of Penicillium digitatum spores as affected by volatile components of. 7125
  - of Israel, Fusarium isolated from. 5745
- **Citrus greasy spot**, histopathology of and identification of causal fungus. 4547
- **Citrus peel extracts**, toxicity of to Guignardia citricarpa. 4288
- **Citrus plantation**, fungi in upper Egypt. 1798
- **Citrus sinensis**,
  - free amino acid content of the greening-affected and healthy plants of. 4575
  - light and temperature effect on symptom development and sporulation of Guignardia citricarpa on. 4245
- **Citrus species**, serodiagnostic studies on with respect to resistance to Phytophthora citrophthora. 2111
- **Citrus tree**,
  - foot rot of. 5073
  - fungistatic flavones in the leaves of spp resistant and susceptible to Deuterophoma tracheiphila. 1135
  - golden branch or 'rubelose' of. 6340
  - occurrence and development of foot rot on. 2984
- **Cladosporin**, from Cladosporium cladosporioides. 2681

**Clam (giant),** intracellular digestion of symbiotic zooxanthellae by host amoebocytes in. 1810
**Clamp connections,**
  Phellodon with. 6459
  in Psilocybe caerulescens, morphogenesis of. 3166
  in Schizophyllum commune, direct microscopic studies of formation of. 1282
  of Schizophyllum commune, microscopic studies of formation of. 632
**Clape Massiff,** lower Cretaceous of. 6562
**Clavines,**
  in Aspergillus flavus, biosynthesis of. 207
  from Claviceps, production of. 6631
**Clay,** effect on growth and phenolic polymer production by Stachybotrys, Hendersonula toruloidea and Aspergillus sydowi. 4259
**Clay (Mao),** planktonic foraminifera of. 7195
**Clay minerals,**
  influence of on formation of humus by Epicoccum nigrum and Stachybotrys chartarum. 5769
  influence on formation of humus by soil fungi. 4263, 5145
  influence of on growth and metabolic activity of Epicoccum nigrum and Stachybotrys chartarum. 5768
**Clean room (ultra),** comparison with laminar flow technique in reverse isolation in bone marrow transplantation. 7555
**Cleistothecia,**
  from Aspergillus spp., ultrastructre of. 38
  of Podosphaera leucotricha in Czechoslovakia. 84
**Cleistothecia development,** in Aspergillus nidulans, significance of $\alpha$-1,3-gluconase for. 6046
**Cleistothecia production,** in Aspergillus nidulans, quantitative analysis of. 7121
**Cleoquinol,** complication of self medication in giardiasis with. 451
**Climate,** diseases of vegetables in organic soils of Quebec in relation to. 519
**Climate (micro),** relation of to basidiospore release by Fomes annosus. 4855
**Clinical isolates,** of Microsporum gypseum, determination of the perfect state, mating type and elastase activity in. 1246
**Clotrimazole,**
  clinical assessment of cream and solution of. 7553
  experimental studies on the antimycotic activity of in vitro and in vivo applied locally. 7585
  local treatment of different dermatomycoses with. 6266
  pulmonary aspergillomata in a child treated with. 1016
  therapeutic evaluation of. 1728
  in vitro sensitivity of Torulopsis glabrata to. 338
**Clotrimazole vaginal tablets,** clinical assessment of. 7559
**Clotrimidazole,** treatment of lung disease caused by Candida in the sputum by. 1685
**Clover (white),** effect of fungal diseases on phenolic contents of. 1113
**Clover (red),** action of quintozene on sclerotinia of. 1760
**Clover sward (white),** effect of grazing or cutting on microflora of the soil. 5151
**Cloxacillin,** treatment of neonatal infections with. 1023
**Clubroot,** of cauliflower, fungicide for prevention of. 3085
**Clustering (site),** in the ftr cistron of Coprinus. 7486
**Cnidocysts,** of Nematodinium, ultrastructural study and development of. 3921
**Coagulation,** in acute Plasmodium falciparum malaria. 5032
**Coagulation (disseminated intravascular),** development of in experimental infection with Plasmodium falciparum in Aotus monkeys. 5701
**Coagulation (intravascular),** in falciparum malaria. 2262
**Coal spoil tips,**
  taxonomy of thermophilous fungi from. 1240
  thermophilous fungi in. 1794, 1806
**Coast (Turkish),** marine algae of. 3256
**Coastal pelagic fisheries,** relationship to plankton of Calicut inshore waters. 3261
**Coastal waters,** capacity of to use nutrients in Sweden. 3257
**Coastal waters (Peruvian),** phytoplankton populations, nutrients and photosynthesis in. 3241
**Coat (extraneous),** in amoeba, study of with ruthenium red and violet. 3181
**Coat formation (surface),** in Trypanosoma brucei. 3180
**Coati (newborn South American),** uncontrolled Microsporum gypseum infection in. 2280
**Cobalt,**
  bioconcentration and toxicity of in selected algae. 4884
  role of biological factors in the sedimentation of. 4016
  yeast variants producing riboflavin and resistant to. 1500
**Cobalt-60,** accumulation by brown algae of different age. 7463
**Cobalt microquantities,** in plankton and foraminiferal tests, determination of. 7344
**Coccal microorganisms,** from lithophylic lichens, nucleotide composition of DNA of. 7190
**Coccidioidal choroiditis (bilateral),** 2875
**Coccidioidin sensitivity,** in Ceylon. 6235
**Coccidioidin skin testing,** by intradermal jet injection. 7504

- **Coccidioidomycosis,**
  - epidemiology and clinical picture of. 2188
  - epidemiology and geographical distribution of. 2189
  - fungus ball as manifestation of. 1669
  - in mice, as experimental animal model for testing antifungal substances. 6284
- **Coccidioidomycosis (experimental para-),** in mice. 5652
- **Coccidioidomycosis (ophthalmic),** case report and review. 457
- **Coccidioidomycosis (osseous),** roetgenographic features of and differential diagnosis. 4992
- **Coccidioidomycosis (para),** specific sensitivity in residents of Venezuela to. 1667
- **Coccidiosis,**
  - of the chicken. 2298
  - of chickens, changes in activity of intestinal phosphatases during. 2958
  - in chickens, effect of radiation protective substances on survival rate and glutathione quotient in. 1083
  - of chickens, new problems in. 2293
  - comparison of single and repeated infections in chickens. 1081
  - cross infection in immunized chickens. 423
  - in the domestic fowl, effect of essential fatty acid deficiency on. 4517
  - following coccidiostat withdrawal, susceptibility of broilers to. 424
  - in the hen, effect of sub-lethal irradiation on. 2747
  - immunity to. 1665
  - in lambs, chemotherapy with sulphamidine. 478
  - in lamb, interpretation of. 5059
  - pathogenicity of Eimeria mivati in light and heavy infections. 480
  - of Rocky Mountain bighorn sheep, in Western Canada. 4412
  - toxoplasmic phase of. 2504
  - in a 26 year old woman. 5644
  - $^{65}$Zn metabolism in chickens during. 2959
- **Coccidiosis (avian),** changes of organ weight and blood components in. 2957
- **Coccidiosis (caecal),**
  - of the fowl, physiopathology of. 4981
  - of young chickens, changes in bacterial population after. 1082
- **Coccidiosis (duodenal),**
  - caused by Eimeria acervulina, pathogenesis of. 5685
  - induced by Eimeria acervulina, influence of free amino acid content in chicken muscle on. 1080
- **Coccidiosis (experimental),**
  - changes in the total, residual and protein nitrogen content in the liver of chickens during. 3731
  - of chicks due to Eimeria tenella, study of fluorescent antibodies in. 5603
  - specific and nonspecific immunological reactions in. 2956, 7503
- **Coccidiosis (hepatic),**
  - basement membrane in in the rabbit. 3730
  - in rabbits, efficacy of monensin or amprolium in the prevention of. 6886
- **Coccidiosis (human digestive),** 286 cases of in Strasbourg. 3675
- **Coccidiosis (nervous).** 6888
- **Coccidiosis (uterine),** caused by Eimeria neitzi in the impala. 481
- **Coccidiostat,**
  - experiments with. 1742
  - study on mode of action of. 1558
- **Coccidiostat (chicken),** studies on potentiated sulphadimethoxine as. 3727
- **Coccidiostat (new),** research into. 2976
- **Coccidiostat withdrawal,** susceptibility of broilers to coccidiosis following. 424
- **Coccoid microorganisms,** isolated from lithophilous lichens, composition of fatty acids in the cell walls of. 6557
- **Coccorhagidia gressetti,** from the Antarctic, food habits of. 537
- **Cockchafer,** comparison of activity of certain pathogens of in plots of natural meadowland. 7606
- **Cocoa,** canker of. 3751
- **Cocoa pods (fixed),** technique of inoculation of with Phytophthora palmivora. 4541
- **Coconut palm (young),** resistance or susceptibility, age of bearing and yield in in relation to development of root wilt disease. 6990
- **Coding specificity,**
  - of histidine tRNA from baker's yeast. 5946
  - of lysine tRNA from haploid Saccharomyces cerevisiae. 6572
- **Codon (AAG),** specificity of recognition of by lysyl tRNA from yeast. 1966
- **Codon (AUG),** initiating translation of iso-1-cytochrome c in yeast, identification and mutational relocation of. 7489
- **Codon (nonsense),** demonstration of UAG as in baker's yeast by amino-acid replacements in iso-1-cytochrome c. 6767
- **Codon (UAA ochre),** in baker's yeast, demonstration of by amino-acid replacements in iso-1-cytochrome c. 6764
- **Coenobium,** of Scenedesmus quadricauda resting cells, formation of. 71
- **Coenzyme A,** formation of by bakers yeast. 4105
- **Coenzyme A (acetyl),** in Tetrahymena, compartmentalization of and the structure of glycolytic and gluconeogenic pathways. 6025
- **Coenzyme A-accumulating activity,** in microorganisms, distribution of and isolation of reaction products. 4104
- **Coenzyme A synthase (3-hydroxy-3-methylglutaryl),**
  - from baker's yeast, kinetic mechanism of. 3325
  - from baker's yeast, purification and properties

**Coenzyme A synthase (3-hydroxy-3-methylglutaryl)**, contd.,
  of. 3324
**Coenzyme binding**, in yeast pyruvate decarboxylase. 732
**Coenzyme competitive inhibitor**, of yeast glyceraldehyde-3-phosphate dehydrogenase, 1-anilino-8-naphthalene sulphonate as. 6108
**Coenzyme Q**,
  synthesis of 2-alkylamino-1, 4-naphthoquinones as inhibitors of. 6141
  synthesis of new alkylamino- and alkylaminomethyl-5, 8-quinolinequinones as inhibitors of. 2963
  synthesis of new 5, 8-quinolinequinones as inhibitors of. 2966
**Coenzyme Q9**, from Blakeslea trispora, production of. 3409
**Coenzyme specificity**, of leucine carboxylyase of marine Rhodophyceae. 4765
**Cofactors**, of electron cyclic flow, effect on induction transfer fluorescence and photophosphorylation efficiency in Chlorella. 152
**Coffee**,
  leaf disease of, control of in southern India. 1119
  rust menace of in Brazil. 6941
  rust resistance in. 1763
  in South India, fungi associated with new disease of. 6466
**Coffee berry disease**, overhead application of fungicide for the control of. 5137
**Coffee branchlets**, berry infection technique for assessment of Colletotrichum coffeanum CBD str on. 4572
**Coffee eradication**, in previously coffee rust infected area in Papua. 1764
**Cohesiveness**, acquisition of by slime mould cells prior to morphogenesis. 5240
**Coin lesion**, of focalized pulmonary histoplasmosis. 5014
**Colcemid action**, on the division schedule of synchronized Tetrahymena. 6126
**Colchicine-resistant mutants**, of Chlamydomonas reinhardtii. 4942
**Cold**, see Temperature (low) .
**Coleopterous fauna**, associated with the maturational stages of Leccinum testaceoscabrum, changes in. 6550
**Colitis (amoebic procto)**, and liver abscess in a neonate. 4480
**Colitis (chronic amoebic)**, and allergic reactivity including autoimmunity producing disease. 6276
**Colitis (fatal postpartum amoebic)**, with trophozoites present in peritoneal fluid. 4474
**Colitis (nonspecific and amoebic ulcerative)**, differential diagnosis of. 6277
**Collagen (native)**, hydrolysis of by mould protease. 2623
**Collagenase (extracellular fungal)**, production of. 7244
**Collecchio**, Parma, stratigraphic and hydrogeological information about a drilled water well at. 1344
**Colombia**,
  bird's nest fungus from. 1872
  fungi of Glena bisulca causing defoliation of Cupressus lusitanica in. 6858
**Colon (ascending)**,
  cholecystocolonic fistula following ameboma of. 5031
  treatment of ameboma of. 2925
**Colon (right)**, necrosis of. 6840
**Colon perforation**, in amebiasis. 2912
**Colonization**,
  of Botrytis on geranium, effect of temperature and light on. 5094
  of drifting algae, relation to circadian periodicity. 549
**Colony (chain)**, of Diatoma elongatum and vulgare, differentiation of. 6483
**Colony (macro-)**, of yeast, survival curves and delayed appearance of after irradiation. 4875
**Colony (spontaneous half-sectored)**, of Saccharomyces cerevisiae, genetic analysis of. 1613
**Colopathy (Candida albicans)**, ano-recto-sigmoid examination in. 5623
**Coloplasty**, for carcinoma of the bladder, Candida albicans septicaemia after. 6824
**Colostomy**, for bladder carcinoma, Candida albicans septicaemia after. 6820
**Colour (fruit flesh and skin)**, inheritance of in powdery mildew resistant cucumbers. 5087
**Colouration (desert)**, biological origin of. 2541, 3802
**Colza disease**, caused by Leptosphaeria maculans, anatomical studies of collar necrosis in. 6911
**Coma (malarial)**, delagyl treatment of. 1717
**Combiase Spezial**, treatment of nonspecific digestive disturbances with. 3732
**Commensals (ciliate)**, of the digestive tube of batracians, action of temperature on. 2081
**Commensals (ecto)**, of free-living marine nematodes, pennate diatoms as. 1300
**Commensals (intestinal)**, of natives of central Kenya. 415
**Community**, of Bryozoa, analysis of pattern in. 5523
**Community structure**, dynamics of a natural population of Paramecium and the role of interspecific competition in. 6560
**Compatibility**, among isolates of Cochliobolus heterostrophus in India. 4702
**Compatibility (metabolic)**, between some actinomycetes and yeasts, effect of nitrogen sources on. 5560
**Competition**, in Dictyostelium discoideum and Polysphondylium pallidum, components study

**Competition, contd.,**
    of. 696
**Competition (continuous),** in Dictyostelium discoideum and Polysphondylium pallidum. 1946
**Competition (interspecific),** in community structure, dynamics of a natural population of Paramecium and the role of. 6560
**Complement,** role of in phagocytosis of Candida albicans by mouse peripheral blood leucocytes. 2206
**Complement fixation (conglutinating),** in South American blastomycosis. 929
**Complement-fixation-reaction (specific),** from Acanthamoeba. 950
**Complement fixation test,**
    comparison with the latex slide agglutination for the diagnosis of Chagas' disease. 1578
    Tween-ether preparation of Toxoplasma gondii antigen for. 6241
**Complementation,**
    at the arg-7 locus in Chlamydomonas reinhardtii. 5570
    among cytoplasmic mutants of Neurospora crassa. 6186
    lack of among pink-adenineless Schizophyllum commune mutants involving 2 discrete genes. 2178
    in maltose $MA_1$ locus in hybrids of wild maltose-negative Saccharomyces. 971
    of mutants of meiosis and spore formation in Saccharomyces. 4383
**Complementation (comparative),** allelic variability in confirming that the ade12-specified protein of yeast is bifunctional. 1615
**Complementation (negative interallelic),** in Schizosaccharomyces pombe. 1620
**Compositae,** in Mexico, rust fungi on. 7638
**Compost,** formation of humic acids and turn-over of nitrogen during preparation of. 3087
**Compost (municipal solid waste),** cellulase production by Thermomonospora curvata isolated from. 184
**Computer,** use of in drawing up interallelic complementation maps. 2836
**Computer simulation,**
    analysis of predictions of trehalose synthesis during differentiation of Dictyostelium discoideum by. 1452
    of microbial population dynamics in activated-sludge process. 4056
    structure of sesquiterpene dialdehyde from Lactarius by. 3419
**Computer simulation studies,** with yeast hexokinase. 2636
**Computerized learning machine,** prediction of microbial characters by. 4318
**Concanavalin A,**
    effects of on mouse peritoneal macrophages. 7389
    reaction of with mannans from yeast. 2858
**Concanavalin A (fluorescein-conjugated),** use of t reveal the site of mannan insertion in wall replication in Saccharomyces. 7115
**Concanavalin A (mercury labelled),** as marker in electron microscopy localization of mannan in yeast cell walls. 1455
**Cone infection,** by Peridermium harknessii. 6931
**Congo,**
    invasion of paranasal sinuses by Madurella mycetomi in a child in. 1691
    Psalliota from. 2545
**Conidia,**
    of Alternaria, structure of the wall of. 3905
    of Aspergillus candidus, production of D-mannitol by. 872
    of Aspergillus fumigatus, fine structure and physiology of germination of. 1923
    of Aspergillus niger newly germinated conidia, production of. 3224
    of Aspergillus oryzae, latent RNase in. 144
    of Botrytis cinerea, comparative sensitivity to γ radiation of. 7388
    of Cercospora arachidicola, simple method fo production of. 2782
    of Cercospora beticola, effect of phenols on germination of. 1527
    of Cercospora canescens, germination and survival of. 6950
    in Coelomycetes, ontogeny of. 1924
    of Coniochaeta malacotricha. 3151
    of Entomophthora thaxteriana, discharge of. 3209
    environmental factors regulating the productio of by Botrytis convoluta sclerotia. 5474
    of Epidermophyton and Microsporon, morphological and cytological observations on formation of. 1244
    of Fomes annosus, sporulation and size of. 58
    of the main corn moulds, γ-ray sensitivity of. 1544
    of Neurospora, effect of pH and starvation on sugar transport in. 2733
    of Neurospora crassa, alteration in freeze response of by additives. 1515
    of Neurospora crassa, freeze response of. 15
    of Neurospora crassa, permeability problems encountered in the treatment of with RNA synthesis inhibitors. 6683
    of Neurospora crassa mutant, differentiation of. 624
    in Penicillium, ontogeny of. 591
    of Penicillium chrysogenum, storage of in liquid nitrogen. 5477
    of Peziza ostracoderma, germination of. 127
    in Phyllactinia corylea, germination at low humidities. 82
    production of in fungi. 75
    repeated germination of sclerotia of Botrytis convoluta to produce successive crops of.

**onidia, contd.,**
  6123
  of Verticillium dahliae, germination of. 3228
**onidia (dormant and germinating),** Aspergillus nidulans, ultrastructure of. 5842
**onidia (endo),** of Thielaviopsis basicola, survival of affected by volatile soil fungicides. 7414
**onidia (germinated),** of Cercospora carthami and Ramularia carthami, ability to survive desiccation. 2072
**onidia (macro),**
  of Fusarium oxysporum, technique for production of. 6732
  of Fusarium solani f. cucurbitae, chlamydospore formation and lysis of. 3978
  of Microsporum gypseum, regulation and self-inhibition of germination of. 101
**onidia (meristem thallo),** formation of in coelomycetes. 2503
**onidia (micro),** of Gnomonia leptostyla, fertilizing role of. 621
**onidia (nongerminated),** of Erysiphe graminis isolation and characterization of ribosomes from. 577
**onidia formation,** of Cercospora beticola on sugar beets, relation to environmental factors, temperature, relative humidity and lights. 4257
**onidia germination,**
  in Arthrobotrys. 3974
  of Fusarium culmorum. 3977
**onidia germination (macro-),** of Microsporum gypseum, role of lysosomes in. 5217
**onidia initiation,** in Stemphylium botryosum, fine structural study of. 7127
**onidia ontogeny,**
  in Coelomycetes. 2503
  in Melanconiales. 2500
  in Torulomyces and Monocillium. 7128
**onidial chains,** of Hyphomycetes, nature and significance of in taxonomy. 3912
**onidial differentiation,** of Neurospora crassa, studies on. 5245, 5246
**onidiation,**
  in Aspergillus niger. 6604
  in Neurospora crassa. 2493
  in Trichoderma, induction of by narrow-beam illumination of restricted areas of fungal colony. 2501
**onidiation (synchronous),** in Neurospora crassa, enzyme patterns and protein synthesis during. 1394
**onidiation mutants,** in Aspergillus nidulans, quantitative survey of. 3591
**onidiophores,**
  of Aspergillus niger, changes in carbon catabolic pathways during synchronous development of. 6508
  of Aspergillus niger newly germinated conidia, production of. 3224
  of some Hyphomycetes, morphological changes of. 2069
  of Urohendersonia, structure of. 2469
**Conidiospores,** of Penicillium chrysogenum, fine structure of. 3175
**Conifer buds,** in western Canada, disease of associated with Dichomera gemmicola. 7078
**Conifer seedling,** relationship between oxygen transport and formation of ectotrophic mycorrhizal sheath in. 4618
**Conjugase (folic acid),** in Coprinus lagopus, role for in the regulation of methionine synthesis. 1984
**Conjugation,**
  in desmids, process and morphology of. 3953
  in Euplotes woodruffi. 107
  in Schizosaccharomyces pombe, flocculation as initial step in. 89
  in Spirogyra. 2479, 3202
**Conjunctiva,** experimental fungal contamination of. 3705
**Connah's Quay,** biodeterioration of timber in water cooling towers in. 543
**Conomist,** for control of coffee berry disease. 5137
**Contagios variations,** in Nectria haematococca, mechanisms of. 5244
**Contaminants,** of algal cultures, Gymnophridium marinum and Labyrinthula as. 3875
**Contaminants (water),** of aircraft tanks, growth of Cladosporium resinae on. 6419
**Contamination,**
  measurement of low levels of yeast in beers and wines. 1188
  modification of the use of the pipette filler for reducing the hazards of. 1585
**Contamination (bacterial),** of brewers' yeast, detection of. 2113
**Contamination (experimental fungal),** of the conjunctiva. 3705
**Contamination (microbial),** of pharmaceutical syrups. 6415
**Continental shelf,**
  of North Carolina, marine algae of. 5909
  of West-Equatorial Africa, bottom foraminifers from. 7192
**Contingency tables,** multiple comparisons from. 2786
**Contraception,** vaginal yeast growth and. 408
**Contraception (oral),**
  Candida vaginitis during. 4399
  effect on vaginal candidosis. 432
**Contraceptive (vaginal),**
  effect of on Candida albicans and Trichomonas vaginalis. 6696
  in vitro effect of on selective vaginal preparations of Candida albicans and Trichomonas vaginalis. 6813
**Contractile vacuoles,** in Lesquereusia spiralis, observations on. 56

**Contractility (limited),** of Stentor amethystinus, explanation for. 2424
**Conversion (mycelial to yeast phase),** factors affecting and growth of the yeast phase of Histoplasma capsulatum. 6105
**Conversion-associated recombination,** in yeast. 4386
**Conversion spectrum,** in Ascobolus immersus, relationships between the genetic alterations in $b_1$ or $b_2$ mutants and. 6183
**Copepoda,** formation and evolution of parasitism among Euglenoidina parasitic on. 4720
**Copper,**
  control of Pithomyces by. 5121
  cytochrome biosynthesis in Candida utilis during limitation of. 210
  effect of on algae. 7360
  interaction of ions with yeast enolase. 183
  of laver, relationship between chemical constituents in environmental factors. 791
  reduction in fungal laccase by hydrated electrons. 185
**Copper-chrome-arsenic,** as preservative for timber in water cooling towers. 543
**Copper complexes,** of mannose-containing microbial polysaccharides, decomposition and binding action in soil of. 6380
**Copper-containing nutrient broth,** staining yeast cells for electron microscopy by growth in. 4331
**Copper limited growth,** of Torulopsis utilis, mitochondrial effects of. 2077
**Coprophilic ascomycota,** from Scotland. 1322
**Coprophilous Mucor and bacteria,** effect of on sporangial production of Pilobolus. 7465
**Coral,** filtrational and osmotic feeding in. 4632
**Coral (hermatypic hard),** density of symbiotic algal cells in. 5917
**Coral calcification,** role of symbiotic algae in. 1317
**Coral reef,** oxygen metabolism in regenerative system of. 667
**Coral reef biocoenosis,** trophic role of microflora in. 1811
**Cordycepin,** effect on Plasmodium knowlesi. 345
**Coremia,**
  of Doratomyces corda, morphogenesis of. 636
  in Doratomyces, growth and development of. 97
**Coremia-zonation (photoinduced),** of Penicillium claviforme mutants, action spectrum of. 2074
**Coriander,** rhizosphere microflora of. 3812
**Coriander seed,** effect on the growth of pathogenic bacteria. 7413
**Coriolin B,** from Coriolus consors, diketocoriolin B as active derivative of. 2025
**Cormarine,** amino acid composition of Actinomyces aurigineus producing. 806
**Corn,**
  attacked by southern leaf blight, dry-milling of. 6968
  comparison of isolates causing yellow leaf-blight of. 3077
  control of blight in by chemicals. 1154
  dichlorvos as inhibitor of aflatoxin production on. 7405
  effect of carbofuran on stalk rot of. 327
  effect of Helminthosporium maydis infection on feeding value of. 3833
  effect of race T of Helminthosporium maydis o grain yield of. 1143
  effect of soil fertility on the physiology of in relation to helminthosporiose disease incidence. 1144
  genetic control of the reaction of to Ustilago maydis. 2344
  Helminthosporium maydis-invaded, lack of toxicity of to chicks and mice. 1183
  incidence of radiation of. 1544
  infected with blight, Phaeosphaeria herpotricha on. 7671
  inoculated with Nigrospora oryzae and Cladosporium, effect on performance of growing swine and rats. 3103
  invaded by Fusarium roseum, effect on young swine of consumption of. 3831
  invaded by Fusarium tricinctum, effects on turkey poults fed on. 3832
  investigations of smut on. 4561
  meiotic products from natural infections of Ustilago maydis in. 1124
  prevention of spread of yellow rust by weather. 1151
  resistance to southern leaf blight of. 6965
  screening method for aflatoxin in. 3542
  trichotoxin A from Trichoderma viride isolate from. 3392
  use of crop in case of blight damage to. 1155
  worst diseases of. 6369
**Corn (blighted),**
  digestibility and energy value of for hogs. 118
  effect of on chicks. 1181
  effect of feeding on broilers. 533
  effect on laying performance of hen fed with. 534
  effect on performance of gestating sows. 3102
  effect on the performance of growing-finishing pigs. 1184
**Corn (cytoplasmic male-sterile),** disease reactio of 30 sources of to Helminthosporium maydis race T. 2363
**Corn (high-lysine),** hypersusceptibility of to kernel and ear rots. 3836
**Corn (mouldy),** toxicological studies of Fusarium tricinctum from. 3700
**Corn (smutty),** mycelium of Ustilago maydis in tissues of. 2343
**Corn (stored and dry-milled),** microbial reductio in after infection with southern corn leaf blight. 7667

- **Corn (sweet),** southern leaf blight potentially dangerous to. 1153
- **Corn (T),** observations of Colletotrichum graminicola on. 3033
- **Corn blight,** light to moderate infection levels of in USA. 985
- **Corn borers (European),**
  - reared continuously on a diet containing fumidil B, biology of. 3738
  - survival and diapause characteristics of hybrids of 3 geographical races of. 5060
- **Corn cultures,** of Penicillium, toxic effects in mice of. 2946
- **Corn diseases,** growth and importance of. 6324
- **Corn genotypes and cytoplasms,** reactions of to Helminthosporium maydis toxin. 3054
- **Corn grain,** infestation of during importation to Poland. 3115
- **Corn inbreds and hybrids,** reaction of with different cytoplasms and genotypes to Helminthosporium maydis race T. 5114
- **Corn juice (from sweet stalks),** behaviour in alcoholic fermentation to obtain yeast and prepare syrups. 2405
- **Corn leaf blight (southern),**
  - association of virulence and mating type among Helminthosporium maydis isolates causing. 2365
  - genetic control of pathogenicity and toxin production in Cochliobolus heterostrophus causing. 2154
  - influence of shade and wet soil on. 5115
  - potential for spread and increase of. 5113
- **Corn leaves (senescent),** influence of extracts from on sexual reproduction in Cochliobolus carbonum. 6663
- **Corn oil,** effect of planting date and southern corn leaf blight on fatty acid composition of. 3781
- **Corn seed,** sclerotial formations by Helminthosporium maydis race T on. 2364
- **Corn seed (germinating),** use of Helminthosporium maydis race T pathotoxin to determine disease reaction of. 4590
- **Corn seedling,** reactions of with non-sterile Texas male-sterile and restored Texas male-sterile cytoplasms to Helminthosporium maydis toxin. 6967
- **Corn silage (blighted),** effect on cornbeef. 1814
- **Corn starch,** hydrolysis of by fungal enzymes. 4114
- **Cornea,** therapeutic keratoplasty in fungal ulcers of. 3629
- **Corneal transplantation,** keratomycosis after. 6270
- **Cortex,**
  - of Chilodronella cucullulus, morphology and fine structure of. 3192
  - of Nassula, development and deployment of cilia, basal bodies, and other microtubular organelles in. 1934
  - of Paramecium caudatum, fine structure of membraneous and microfibrillar systems in. 1906
- **Cortex (somatic),** of Conchophthirus curtus, structural differentiation in. 3943
- **Cortexolone acetate,** simple synthetic medium for growth of Tieghmella hyalospora and transformation of. 3534
- **Cortical control,** of macronuclear behaviour in Stentor, evidence for. 3990
- **Cortical development,** in Urostyla. 7140
- **Cortical organelles,** of Chilodonella cucullulus, topography of. 3193
- **Cortical units,**
  - in Tetrahymena, pattern of replication of. 1937
  - in Tetrahymena with varying numbers of ciliary rows, constancy of. 3947
- **Corticosteroid,**
  - detection of Candida during topical therapy with. 436
  - pulmonary aspergillomas treated with. 5606
  - toxoplasmosis as complication of treatment of lupus erythematosus with. 2273
- **Cortisone,**
  - buccal moniliasis manifestations after the use of drugs other than. 5006
  - effect of on experimental infections of hamsters and mice with Leishmania donovani. 5669
- **Cosmetic industry,** fundamentals of microbiology of in relation to cleansing in. 5168
- **Cosmetic ingredients,** assimilation of by microorganisms. 3114
- **Cosmetic preparations,** rapid screening of preservatives for. 1574
- **Costa,** in Trichomitopsis termopsidis, undulatory motion of. 553
- **Costa Rica,** Hyphomycetes of. 7187
- **Cotton,**
  - biological control of wilt of. 4587
  - common antigens in. 4422
  - comparative virulence of American and Australian Verticillium albo-atrum in. 2380
  - control of Verticillium wilt in with benomyl surfactant combination. 524
  - effects of weed control in grain sorghum on subsequent incidence of Verticillium wilt in. 7677
  - in Egypt, germination, sporulation and growth of causal organism of wilt of. 1963
  - greenhouse evaluation of Verticillium, Fusarium and root knot nematode on. 4582
  - influence of Pratylenchus brachyurus on the incidence of Fusarium wilt in. 5107
  - in Maharashtra state, Curvularia leaf spot of. 7658
  - mechanism of activity in transformation of Fusarium with toxin in. 7401
  - protection of from wilt. 5131
  - reduction in yield of caused by parasitic diseases. 7666
  - relation of Verticillium albo-atrum to severity of wilt in. 2381

**Cotton, contd.,**
  root distribution as factor influencing symptom expression of Verticillium wilt of. 3066
  T-1 Verticillium causing severe wilt in. 4600
  Verticillium dahliae wilt of. 4601
**Cotton (commercial),** Fusarium wilt resistance in. 3043
**Cotton belt (USA),** geographical distribution of Aspergillus flavus boll rot in experimental plots across. 5091
**Cotton boll,**
  absorption and movement of benomyl into and control of rot of. 1130
  pectic enzymes produced by Diplodia gossypina in vitro and in infection of. 1136
**Cotton fruit,** biochemical factors associated with infection of by Diplodia gossypina. 7659
**Cotton leaves,** succession of fungi on. 3274
**Cotton root juices,** differential inhibitory action of on isolates of Fusarium oxysporum f. sp. vasinfectum. 4581
**Cotton seed preharvest deterioration,** influence of fungi on. 3109
**Cotton seedling diseases,** activity of seed and soil fungicides for control of. 3059
**Cotton stands,** effects of ultra-low volume and conventional spray applications of in-covering-soil fungicides on. 2382
**Cotton yarn,** effects of plasticizers and plastic coatings on fungal attack of. 7706
**Cottonseed meal,**
  chemical and biological properties of after ammonia and methylamine treatment for aflatoxin inactivation. 2678
  for swine, fungal treatment of. 3101, 3830
**Cotyledons (flax),** histology of infection and sporulation by saprophytic cultures of Melampsora lini inoculated into. 4553
**Coumarin (3,4-dimethyl-8-hydroxyiso),** from Lenzites thermophila. 6633
**Coumarins,**
  effect of on growth of Bacillus megaterium from spores. 4192
  of Trigonella, changes in after infection with Peronospora trifoliorum. 1094
**Counts,** of Candida albicans, diurnal variations of in saliva. 4740
**Counter (particles),** use of in the field of cereal mycology. 4924
**Cowpeas,** in Nigeria, stem anthracnose of. 2354
**Coyden,** as coccidiostat. 1742
**Crab (sand),** carotenoid pigments and their possible role in the reproduction of. 7007
**Crabtree effect,** influence of on growth characteristics of Saccharomyces cerevisiae in glucose limited chemostat. 4913
**Cranial amoebic inoculation (intra),** in a hamster. 3717
**Cranial cavity (intra),** phycomycosis in. 1670
**Crassostrea commercialis,** occurrence of haplosporidan in. 7601
**Crayfish,** blood reactions in vitro in against Aphanomyces astaci. 5650
**Creatinine,** utilization by Penicillium roqueforti. 2150
**Creatinine metabolism,** in Aspergillus nidulans, absence of. 5379
**Creophilus erythrophalus,** intracellular microsporidian parasite from the compound eye of. 3725
**Cretaceous (lower),** of La Clape Massif. 6562
**Cretaceous carbonate strata (lower),** of South-western Crimea, foraminifera from. 7196
**Crimea (Southwestern),** foraminifera from upper Jurassic and Lower cretaceous carbonate strata of. 7196
**Cristae (bristly),** in algal mitochondria. 1205
**Crohn's disease,** bacteriological studies in. 4458
**Crop (cover),** macro-fungi in apple orchard in relation to. 5758
**Crop rotation,**
  incidence of brown rust in transplanted wheat as affected by. 5083
  groundnut pod rot potential in as indicated by relative Pythium population in soil. 6379
**Crop vulnerability,** and breeding for disease resistance. 6969
**Cross over detections (double),** consequences of on the functional interpretation of segment '29' in Podospora anserina. 7481
**Crosses (interspecific),** and crossing over in Neurospora. 6194
**Crossotarsus niponicus,** notes on associated fungi and mycetangia of. 2403
**Crossotarsus wollastoni,** Pichia from. 2459
**Crosswalls,** of Spirulina major, ultrastructure of. 2429, 3124
**Crotolaria vespertilio,** micorrhizas and bacterial nodules in. 1800
**Crucifers,** measurement of systemic infection of with downy mildew. 3746
**Crustacea (benthic),** Leucothrix mucor infestation of. 4014
**Crypt (flagellar),** formation of in the course of male gametogenesis in Bonnemaisonia hamifera. 5237
**Cryptococcal abscess,** of brain, case of. 1026
**Cryptococcosis,**
  case report with Hodgkin's disease and toxoplasmosis. 2933
  in a cat. 1062
  control for rheumatoid factor in the latex test for. 2123
  in cows causing mastitis. 1063
  epidemiology and microbiology of. 1635
  surgical management of in immunosuppressed patients. 2877
  survey of zoo aviaries for. 1636
  of the uvea, diagnosis with hypertonic media. 440

**Cryptococcosis (central nervous system),** neuro-ophthalmic aspects of. 4454
**Cryptococcosis (cutaneous),** indicating disseminated disease. 439
**Cryptococcosis (disseminated),** chronic lymphoid leukaemia with. 4455
**Cryptococcosis (human),** morphology of Cryptococcus neoformans in. 1243
**Cryptococcosis (primary cutaneous).** 1689
**Cryptococcosis (pulmonary),**
  pleural effusion secondary to. 4456
  and pulmonary alveolar proteinosis in an adolescent boy. 4453
**Cryptococcosis (visceral),** presentation of as hepatitis without central nervous system or pulmonary involvement. 4452
**Crystallization/crystallography,** for Rhizopus chinensis acid protease. 726
**Crystallization of tRNA$^{Leu}$-synthetase,** from baker's yeast. 5989
**Crystallographic data (preliminary),** on triose phosphate isomerase from baker's yeast. 5988
**Crystals (aragonite),** within codiacean algae. 3129
**Csakvar,** diatoms of the Lower Pannon arising from the neogenic pool of. 3995
**Ctenopharyngodon idella,** protozoan diseases of the fry of. 1079
**Cuba,** Mougeotia drouetii based on material from. 1941
**Cucumber,**
  anthracnose in. 6357
  field evaluation of systemic and non-systemic fungicide for control of Sphaerotheca fuliginea in. 5086
  infected with Fusarium, biochemical changes in. 3047
  inheritance of resistance to powdery mildew in. 2994
  in the Sudan, chemical control of powdery mildew of. 6924
**Cucumber (powdery mildew resistant),** inheritance of fruit flesh and skin colours in. 5087
**Cucumber leaf,** effect of humidity during darkness and transfer of assimilates from to sporangia of Pseudoperonospora cubensis. 6091
**ucumber leaf-discs,** infected with Corynespora melonis, photosynthetic products of dry matter from. 6359
**Cucumber seedlings,** indirect action of 6-acauracil against Phythium debaryanum in the rhizosphere of. 6901
**ucumis,** role of preformed inhibitors in in wilt resistance. 4584
**ucumis melo,**
  charcoal rot of. 5117
  correlation between virulence of Colletotrichum lagenarium and its ability to degrade polyglucosides in the cell walls of. 5100
**Cucumis sativum (powdery mildew resistant),** inheritance of fruit flesh and skin colours in. 5087
**Cucurbita pepo,** charcoal rot of. 5117
**Cucurbitaceae,**
  charcoal rot of. 5117
  mildew of due to Pseudoperonospora cubensis in France. 7626
**Culex,** tissue specificity and systematics of Nosema in. 482
**Culex fatigans,** parasitization of by Nosema stegomyiae. 2960
**Culex pipiens,** susceptibility of to Plasmodium subpraecox. 5703
**Culex territans,** Pleistophora chapmani in. 4533
**Culicidae,** local malaria vector of the Philippines, status of. 1652
**Cultivated Porphyra,** relationships between the density of individuals and final yield in. 7433
**Cultural differences,** between races T and O of Helminthosporium maydis, temperature and light effects on. 7375
**Cultural properties,** of some Discomycetes. 6148
**Culture,**
  and biology of Trichomonas vaginalis. 7454
  of blue-green algae, utilization of in taxonomy. 2766
  of Candida utilis, control of oxidative-potential in. 355
  Chondrus crispus and Gigartina stellata. 2716
  of Coscinodiscus asteromphalus developmental stages. 1261
  cytochemical studies on Leishmania tropica major in. 4082
  development of Saccorhiza dermatodea in. 5872
  of Ditylum brightwelli, silica availability and formation of dysplastic cells in. 2809
  of Ectocarpus and Giffordia, occurrence of variant forms in. 3881
  effect of temperature on growth of Trypanosoma in synthetic medium. 2818
  of Entamoeba histolytica. 2136
  of Entamoeba histolytica, effect of freezing on encystment in. 2137
  of Fucus in the laboratory. 347
  Grinnellia americana in. 956
  and growth of Oscillatoria. 7425
  of Hypocrea and Trichoderma. 2457
  in hypotonic media, use of in the characterization of thermo-adaptable Entamoeba histolytica. 4346
  of lichen fungi and algae. 5525
  of lichen thallus under controlled conditions. 7453
  life cycle of Callophyllis firma in. 7105
  life cycle of Chondrus crispus in. 6492
  with 2 liquid phases, growth models of. 6729, 6730
  of Myrothecium verrucaria on non-cellulosic substrates, regulation of cellulase production

**Culture, contd.,**
in. 3340
of Naegleria gruberi in vitro. 2801
of Navicula ostrearia, structural variations after subjecting to various conditions of. 4665
of Nereocystis luetkeana, ecological implications of. 7159
of Nosema apis in honey-bee tissue. 3560
of Paramecium caudatum, effect of the medium flow rate on the density, productivity and specific growth rate of. 5486
of Penicillium viridicatum, effect of conditions of on toxigenicity. 2076
of Platymonas viridis, reutilization of nutrient medium prepared using sea-water for. 2768
productivity of some unicellular algae in. 6712
propagation and survival of Trypanosoma brucei at 37° C in. 2134
of Puccinia coronata from Arrhenatherum elatius in vitro. 2119
of Pyricularia oryzae, studies on. 2126
of Scenedesmus quadricauda, nitrogen uptake during. 7461
of Scenedesmus quadricauda, nuclear division as criterion of synchrony in. 5234
of soil protozoa, selective action of. 2402
sterioidomerism and induced production of pigment by Curvularia lycopersici in, 7374
for the study of algal populations in vitro. 926
of Trypanosoma brucei in biphasic medium of human or animal blood. 4344
of Trypanosoma cruzi, arginine transport in. 2004
of Trypanosoma cruzi in improved liquid media. 2135
of Trypanosoma rhodesiense, metabolic transformations in. 2796
of Trypanosoma theileri isolated from cattle. 1580
of yeasts, comparison of different nutrition media for. 3547

**Culture (anaerobic),**
gases liberated by Trichomonas vaginalis during. 4343
of Saccharomyces cerevisiae, effect of lipid status on cytoplasmic and mitochondrial protein synthesis in. 7268

**Culture (anaerobic batch),** molar growth yields of yeasts in. 2112

**Culture (aseptic),** formation of ectomycorrhizae on half-sib progenies of slash pine in. 3807

**Culture (autotrophic and photoheterotrophic),** of Gloeomonas, regulation of isocitrate lyase from. 1388

**Culture (axenic),**
of desmids, effect of calcium on. 7355
differences between races of Puccinia graminis f. sp. tritici in. 35
of Entamoeba histolytica. 2799
enzymatic activity of Entamoeba histolytica in. 3341
enzyme synthesis in Dictyostelium discoideum during differentiation of myxamoebae in. 3311
enzyme synthesis in myxamoebae of Dictyostelium discoideum during growth in. 3310
of Hartmanella culbertsoni serological changes associated with encystment in. 3983
of insect-inhabiting Trichomycetes. 1567
interactions between strs of Puccinia graminis in. 353
of marine phytoplankton, production of surfactants by. 2691
of Melampsora lini, nutritional studies with. 4936
of Paramecium aurelia. 3122
of Puccinia graminis f. sp. tritici from uredospores, new perspective of. 939
sulphur nutrition of Puccinia graminis f. sp. tritici in. 6748

**Culture (axenic mass),** of Entamoeba invadens. 4347

**Culture (batch and chemostat),** growth and phosphat requirements of Nitzschia actinastroides in under phosphate limitation. 3949

**Culture (batch and continuous),**
of Anabaena flos-aquae, kinetics of synthesis of nitrogenase in. 1385
growth and physiology of yeast in. 940

**Culture (cell),**
development of Eimeria crandallis from sheep in. 6162
development of first- and second-generation schizonts of Eimeria magna from rabbits in. 2505
development of Isospora canis in.4350
fine structural aspects of development of Eimeria alabamensis schizonts in. 5254
increasing yield of Eimeria tenella oocysts in. 953

**Culture (Chlorella vulgaris),** bacterial microflora in. 1817

**Culture (continuous),**
of Anabaena flos-aquae, nitrogenase activity and nitrogen assimilation in. 1384
of Anabaena flos-aquae, relationship between phosphates and alkaline phosphatases in. 1383
cultivation of Saccharomyces cerevisiae in. 491
effect of evaporation losses on. 5527
of natural populations of phytoplankton in dilute treated sewage effluent. 2771
predator-prey interactions of Dictyostelium discoideum and Escherichia coli in. 6147
response of to stimuli in glucose feed rate and dilution rate. 3551
of Saccharomyces cerevisiae. 935
of Saccharomyces cerevisiae, effect of oxygen tension during. 2066

- **ulture (continuous), contd.,**
  - transformation of the nucleic acid composition of Anacystis during. 4065
- **ulture (continuous phase),** pilot plant apparatus for. 3545
- **ulture (continuous synchronous),** of Tetrahymena pyriformis. 3562
- **ulture (deep-tank),** of blue-green algae in $H_2O$ and $D_2O$. 3520
- **ulture (defined natural),** of Aspergillus flavus, production of aflatoxin B from. 6063
- **ulture (dialysis),** in phytoplankton studies. 5524
- **ulture (excised root and fungal),** flotation of on liquid media. 6727
- **ulture (experimental field),** of Gracilaria edulis. 3823
- **ulture (fungal),**
  - maintenance of in pre-sterilized disposable screw-cap plastic tubes. 3556
  - inoculation technique for. 3557
- **ulture (glycerolated),** of Ochromonas, conservation of. 4232
- **ulture (homocontinuous),** phototaxis investigations in Chlamydomonas reinhardtii in. 1827
- **ulture (in vitro),** of Uromyces dianthi. 2781
- **ulture (kidney),** identification of several wood destroying Hymenomycetes by means of. 1238
- **ulture (leaf),** cultivation method for powdery mildew of barley in. 4915
- **ulture (liquid),**
  - growth response of Curvularia lunata to various herbicides in. 4892
  - of Podospora anserina, rhythmic dry weight production in. 2494
- **ulture (mass),** of phototrophic organisms in an automatic culture plant. 2772
- **ulture (microchamber),** of algae. 7428
- **ulture (minimal),** of Euglena gracilis, inorganic requirements for. 6742
- **ulture (mixed),**
  - of aggregateless mutants in Dictyostelium discoideum, appearance of wild type from. 4944
  - antagonistic properties of Trichoderma in. 1959
  - of autotrophic and heterotrophic organisms, growth of. 6519
  - effect of on growth of entomopathogenic fungi. 5925
  - growth of Peronospora farinosa f. sp. betae and sugar beet callus tissues in. 3532
  - reciprocal effects between Aspergillaceae and cultivated plants in. 1781
  - specific antigenic extracts obtained from Entamoeba histolytica maintained in. 2867
  - studies of with chemostat. 4337
  - of Synchytrium endobioticum and Solanum tuberosum, attempt to establish. 931
  - of Synchytrium endobioticum and Solanum tuberosum callus, attempt to establish. 1568
- **Culture (moist chamber),** myxomycetes developed in. 4323
- **Culture (mono and mixed),** interregulation of marine planktonic diatoms in. 4315
- **Culture (monoxenic),** of pond pine, formation of mycorrhizae in. 6386
- **Culture (monoxenic and axenic),**
  - comparative study of polysaccharides of Entamoeba histolytica trophozoites in. 3367
  - encystation of Entamoeba invadens in. 3982
- **Culture (mycelial),** of Amanita pantherina, effect of auxin and kinetin on the increase in material of. 4251
- **Culture (mycelium),** use of for systematic study of Rhizopogon. 4332
- **Culture (non-dividing),** of Euglena, persisting circadian oscillations in enzyme activity in. 5963
- **Culture (parasynchronous),** of Schizosaccharomyces pombe, initiation of cell wall synthesis in. 629
- **Culture (primary),** of chicken, pheasant, partridge and turkey kidney cells, comparative development of Eimeria tenella in. 3985
- **Culture (prolonged),**
  - of Histomonas meleagridis, immunologic analysis by gel diffusion of effect of. 420
  - of Histomonas meleagridis, immunologic analysis by quantitative fluorescent antibody methods of effects of. 6236
- **Culture (pure),**
  - effect of salinity on form of Asterocytis in. 2715
  - use of a hair loop to isolate unicells in. 7437
- **Culture (saprophytic),** of Paxillus, comparison of pigments in. 4212
- **Culture (semicontinuous),** of fodder yeast in recirculating worts. 5537
- **Culture (shake),** development and evaluation of in production of H and M antigens by Histoplasma capsulatum. 4423
- **Culture (sporangium-free liquid),** of Phytophthora parasitica, chlamydospore formation in. 2488
- **Culture (stock),** simplified storage and retrieval of. 5534
- **Culture (submerged),**
  - of Arachniotus dankaliensis, nitrogen metabolism in. 7467
  - of Aspergillus niger, role of glycolysis in sporulation. 96
  - of Claviceps, correlation of certain alterations in metabolic activity with alkaloid production in. 1495
  - liquid medium for large-scale production of Hirsutella thompsonii in. 7450
  - of Podospora anserina, quantitative changes in the spectrum of phenoloxidases during growth in. 2599
- **Culture (synchronized),** of Scenedesmus obtusiusculus, effect of audible and low ultrasound

- **Culture (synchronized)**, contd., frequency on growth of. 4240
- **Culture (synchronous)**,
  - of Chlorella, dissociation of nuclear DNA replication from concomitant protein synthesis. 4752
  - of Chlorella, effect of temperature in regulation of DNA synthesis in. 5458
  - of Chlorella fusca, degradation of uracil by. 6031
  - of Schizophyllum commune, commitment to fruiting in. 633
- **Culture (synchronous and synchronized)**, of Saccharomyces cerevisiae with respect to relative age of individual cells. 936
- **Culture (tissue)**,
  - sensitivity of Eimeria tenella sporozoites to fungizone after maintenance in. 7422
  - of Toxoplasma gondii with HeLa cells, studies on. 1583
- **Culture (tissue and chick embryo)**, of Eimeria tenella, comparative cytophotochemical investigation of the dynamics of cytoplasmic RNA in the endogenous development in. 5316
- **Culture (turbidometric continuous)**, of phytoplankton. 4314
- **Culture (undisturbed)**, of Tetrahymena pyriformis, 2-step growth curve from. 4352
- **Culture bioassay method (tissue)**, for water pollution with special reference to mercuric chloride. 6159
- **Culture cell line (permanent tissue)**, increase in growth of after cultivation in lactalbumin-yeast medium by addition of extra nutrients. 3550
- **Culture conditions**, influence of on ethanol and acetic acid metabolism of yeast. 5543
- **Culture dish incubation**, practical tray-rack for. 5547
- **Culture filtrates**, of Rhizopus nigricans, relation to nitrogen nutrition. 3571
- **Culture forms**, of Trypanosoma brucei, effect of diphenylamine on terminal respiration in. 6110
- **Culture medium**, of Saccharomyces cerevisiae, influence of on induction of mutants in haploid culture by acriflavine. 6122
- **Culture medium (artificial)**, maintenance of Babesia-infected tick tissues in. 6161
- **Culture medium (new)**, Trichomonas vaginalis in. 6740
- **Culture methods (improved)**, for Rozella and Olpidiopsis. 7440
- **Culture system (algal)**, evaluation of materials for use in. 7435
- **Cuman**, effect on the growth of Rhizoctonia solani in vitro. 6138
- **Cupressus lusitanica**, in Colombia, fungi of Glena bisulca causing defoliation of. 6858
- **Cupric ions**, effect of on Chlorella respiration. 5457
- **Cupric sulphate**, effect of on prophylactic efficacy of 2-acetylamino-5-nitrothiazole, nifursol and ipronidazole against histomoniasis in turkeys. 4504
- **Curing**, by fermentation, changes in the microflora of wild rice during. 7707
- **Curly top**, breeding of sugarbeet for combined resistance to leaf spot, Rhizoctonia and. 1148
- **Currant (black and red)**, characters of biology and immunity to diseases of. 5729
- **Currant (red)**, correlation between intensity and frequency of rust of. 5078
- **Current regime**, in the Suez Canal, distribution and ecology of Ceratium egyptiacum and it validity as indicator of. 7154
- **Cuticle**, of Galleria mellonella, enzymatic syste of Beauveria bassiana on. 3695
- **Cuticle layer**, as determining factor for formati of mature appressoria of Erysiphe gramini on wheat and barley. 7112
- **'Cutrine'**, recommendation for in drinking water 6417
- **Cyanamide**,
  - degradation of by microorganisms in the spermosphere and rhizosphere. 2386
  - influence of on sporulation of Cercosporella herpotrichoides. 4571
- **Cyanamide and calcium cyanamide**, effect on sporulation of Cercosporella herpotrichoid 335
- **Cyanein**, induction of yeast-like growth of Paecilomyces viridis by. 5515
- **Cyanide**,
  - change in the photoinduced electrical activity of Nitella cells under the influence of. 549
  - effect on growth and respiration in Tetrahyme pyriformis. 2739
- **Cyanide degradation**, by Stemphylium loti enzym 6609
- **Cyanide-resistant respiration**, in Neurospora crassa. 1514
- **Cyanophycin granules**, correspondence of with structured granules in Anabaena cylindrica 4788
- **Cyathin**,
  - from Cyathus helenae. 2026
  - of Cyathus helenae, physiology of production 834
- **Cyathin $A_3$**, of Cyathus helenae. 6062
- **Cycas revoluta**, cell morphology of blue-green algae isolated from. 7346, 7347
- **Cyclamates**, effect of on the growth of Pullularia pullulans. 6676
- **Cyclamen**, antifungal resistance factor in. 5509
- **Cyclamen wilt**, in California and its control. 76
- **Cyclamin**, an antifungal resistance factor in Cyclamen. 5509
- **Cyclase (adenyl)**,
  - in Dictyostelium, possible control element of

**yclase (adenyl), contd.,**
  chemotactic system. 5966
  from Tetrahymena pyriformis, epinephrine and serotonin activation of. 7262
**yclase (β-cyclopiazonate oxido),**
  from Penicillium cyclopium, studies on. 4119
  from Penicillium cyclopium, assay methods, isolation and purification of. 2630
**yclase (2, 3-oxidosqualene-cyclo-artenol),** from Ochromonas malhamensis, properties of. 720
**ycle (haplo diplo phasic),** Helminthoclodia senegalensis with. 5824
**ycle (nuclear),** in Endemosarca hypsalyxis. 5884
**ycle (parasexual),** in dermatophytes. 5894
**yclic compounds,** influence of methyl substituent on microbiological oxygenation of. 876
**yclo-L-alanyl-L-tryptophanyl,** isoprenylation of. 6038
**ycloaldolase (L-myo-inositol-1-phosphate),** from Neurospora crassa, effect of $(NH_4)_2SO_4$ and glycerol on the preservation of the $NAD^+$-independent activity of. 5325
**yclochlorotine,** chronic toxicity and carcinogenicity of in mice. 5046
**ycloheximide,**
  effect on biosynthesis and secretion of yeast invertase. 1402
  effect on lipid synthesis during respiratory development in Saccharomyces cerevisiae. 330
  effect on membrane transport in Euglena. 2093
  effect on rhythmic mycelial growth in Podospora anserina. 625
  kinetics of resensitization of Tetrahymena following recovery from. 3494
  morphogenetic modifications induced by on Micrasterias fimbriata during the course of budding. 6117
  quantitative evaluation of antifungal properties of. 4897
  resistant incorporation of amino acids into cytochrome oxidase of Neurospora crassa. 198
**ycloheximide inhibition,** of DNA-dependent RNA-polymerase 1 of Achlya bisexualis. 3449
**ycloheximide resistant mutants,** in Saccharomyces cerevisiae, induction of with N-methyl-N'-nitro-N-nitrosoguanidine and ICR-170. 4276
**ycloheximide tolerance,** in Cochliobolus carbonum, epidemiology of. 4945
**yclophosphamide,**
  effect on IgG levels and parasite number in experimental trypanosomes. 2287
  toxoplasmosis as complication of treatment of lupus erythematosus with. 2273
  in the treatment of mycotic dermatitis of sheep. 2284
**yclosis,** in Paramecium, effect of p-chloromercuribenzoate on. 3478
**ylindrical bodies (osmiophilic),** ultrastructure of trophozoites of Entamoeba histolytica with reference to, spherical arrangements of. 3928
**Cylindroiulus teutonicus,** presence of Microsporidia in. 7607
**Cyperus lucidus,** in Australia, undescribed Ustilago on. 5840
**Cypress (Arizona),**
  Curvularia intermedius associated with seedling tip blight of. 5104
  monochaetia canker of. 2370
**Cyprinus carpio,** in winter ponds, occurrence of nonspecific ciliates on. 5299
**Cyst,**
  in Acanthamoeba comandoni and A. astronyxis, taxonomic characteristics of. 53
  of Entamoeba histolytica, bioassay system for evaluation of. 5484
  of Iodamoeba butschlii, ultrastructure of. 5224
  kinetics of appearance of in experimental mouse toxoplasms. 4530
  of Phytophthora palmivora, structure and differentiation of cell wall of. 1270
  of Pneumocystis carinii in human sera, indirect fluorescent antibody test for detecting antibodies to. 7522
**Cyst (macro),** isolation from the soil of Dictyostelium mucoroides forming. 6376
**Cyst (natural and experimental hepatic),** malignancy in. 1695
**Cyst (protozoan),** formol-cupric chloride method for the examination of. 4930
**Cyst (resting),**
  of Colpoda maupasi under low temperatures, drying and freezing rate related to the effect of UV irradiation of. 6125
  of Colpoda maupasi at low temperatures, effect of short-wave UV light on. 3492
**Cyst (viable),** transformation of trophic Hartmannella culbertsoni into by cyclic AMP. 4861
**Cyst coat,** of Colpoda steinii, induction of protein synthesis in. 218
**Cyst development,** of Toxoplasma gondii in mice, experimental study of activity of certain drugs on. 5708
**Cyst-induced toxoplasmosis,** in cats. 4531
**Cyst like bodies,** of Trypanosoma conorhini, ultrastructure of. 3924
**Cyst passers (asymptomatic),** experimental studies on Entamoeba histolytica with reference to. 989
**Cyst wall,** of Didinium nasutum, fine structure of. 1903
**Cyst wall formation,** and endogenous carbohydrate utilization during synchronous encystment of Phytophthora palmivora zoospores. 1269
**Cystamine,** effect on survival rate and glutathione quotient in chicks after infection with Eimeria necatrix. 1083
**Cystectomy,** for bladder carcinoma, Candida albicans septicaemia after. 6820, 6824

- **Cysteine,** effect on activity of Candida utilis tryptophan synthetase. 760
- **L-Cysteine,** effect on sclerotium formation in Sclerotium. 1285
- **Cysteine (N-acetyl-L),** use of to process sputa for mycological and fluorescent antibody examinations. 5533
- **Cysteine content,** of insoluble proteins from wild-type and mi-1 Neurospora crassa, comparison of. 4135
- **Cysteine residues,** of Saccharomyces cerevisiae iso-cytochrome C, revision of the amino acid sequence between. 5372
- **Cystidia,** of hymenomycetes. 3156
- **L-Cystine,** effect on sclerotium formation in Sclerotium. 1285
- **Cystitis (candidal),** amphotericin B lavage in the treatment of. 7532
- **Cytochalasin A and B,** inhibition of sugar uptake in cultured cells by. 5419
- **Cytochalasin B,**
  - effects of on polymorphonuclear leucocyte locomotion, phagocytosis and glycolysis. 7314
  - enucleation of mammalian cells by. 7312, 7313
  - formation of anucleate and multinucleate cells in normal and SV40 transformed WI-38 by. 7315
  - inhibition of the transport of hexoses in mammalian cells by. 7311
  - reversible inhibition of chloroplast movement by in Mongeotia. 5461
- **Cytochalasin E and F,** structure of. 3414
- **Cytochalasins,** antimicrobial properties of and their alteration of fungal morphology. 6132
- **Cytochemical studies,** on Leishmania tropica major in culture. 4082
- **Cytochrome,**
  - in Candida utilis, biosynthesis under copper limited conditions. 210
  - of Tetrahymena pyriformis mitochondria. 6622
- **Cytochrome (chloroplast),** in Chlamydomonas reinhardtii, site of synthesis of. 5367
- **Cytochrome (isotope hybrid algal),** extraction and purification of. 4129
- **Cytochrome 558,** of Euglena gracilis. 5369
- **Cytochrome b$_2$,**
  - differences in quaternary structure and constitutive chains between 2 homologous forms of. 3352
  - from Hansenula anomala, preparation and characterization of. 3317
  - from Saccharomyces cerevisiae, 2 molecular forms of. 3353
  - of Saccharomyces cerevisiae, subunit structure of. 3331
- **Cytochrome b$_T$ content,** in mitochondria of chloramphenicol treated Neurospora crassa, close correlation with antimycin titre. 7399
- **Cytochrome c,**
  - comparative biochemistry of and evolution of organisms. 2057
  - from Crithidia oncopelti, amino acid sequence of. 4147, 4794
  - curative potencies against α-amanitin poisoning by. 7523
  - from Debaryomyces kloeckeri, amino acid sequence of. 1435
  - genetics and biosynthesis of. 4388
  - from trypanosomatids, purification and properties of. 216
  - from Ustilago sphaerogena, primary structure of. 7340
- **Cytochrome c (iso),**
  - of Saccharomyces cerevisiae, revision of the amino acid sequence between the cysteine residues of. 5372
  - of yeast, molecular heterogeneity of. 2705
- **Cytochrome c (iso-1),**
  - demonstration of the UAA ochre codon in bakers' yeast by amino acid replacements in. 6764
  - demonstration of UAG as nonsense codon in baker's yeast by amino acid replacements in. 6767
  - in yeast, identification and mutational relocation of the AUG codon initiating translation of. 7489
- **Cytochrome c (iso-1 and iso-2),** in respiratory deficient strs of yeast, presence of epsilon-N-trimethyllysine in. 1445
- **Cytochrome c (mammalian type),** of Ustilago sphaerogena. 4139
- **Cytochrome c (yeast),** synthesis of the substituted 14-22 and 11-17 peptide fragments of. 804
- **Cytochrome c555,** in Crithidia fasciculata, purification and properties. 1446
- **Cytochrome c oxidase,** from Saccharomyces cerevisiae, purification and properties of. 7225
- **Cytochrome content,** of Phycomyces spores during germination, studies on. 6035
- **Cytochrome-o,** in Tetrahymena pyriformis mitochondria, reduction by succinate and DPNH. 219
- **Cytochrome oxidase,**
  - from baker's yeast, properties and use of antiserum to. 7228
  - of Neurospora crassa, cycloheximide resistant incorporation of amino acids into. 198
- **Cytochrome P$_{450}$,**
  - in Candida tropicalis, participation in the oxidation of alkanes. 824
  - solubilized from yeast microsomes, interconversion of high- and low-spin states of. 7337
- **Cytofluorimetric study,** of DNA content of Paramecium caudatum micronuclei. 147
- **Cytokinensis,**
  - of Chilodonella cucullulus, course of in normal dividers and after phenethyl alcohol treatment

- **Cytokinensis, contd.,** 3193
  - inhibition of by autogenous substances in the Hartmannella. 6112
  - in Klebsormidium. 7049
  - of Tetrahymena synchronized by deuterium oxide. 6127, 6689
  - in Ulothrix: 2480, 3203
  - variation in in plant cells. 2822
  - in yeast, genes controlling. 2171
- **Cytokinin**, in barley, determination of after attack by powdery mildew. 6333
- **Cytokinin activity,** associated with the development of Verticillium wilt and water stress in cotton plants, changes in. 6986
- **Cytokinin-like activity,** in sea-water from the Fucus-Ascophylium zone. 3406
- **Cytological characteristics,** of Pyrocystis, use in the estimation of doubling times and their populations in the sea. 5236
- **Cytology,**
  - of Hansenula. 1273
  - of haploid male and female strs of Oedogonium cardiacum. 1840
- **Cytology (nuclear),** of Sirogonium. 2437, 3130
- **Cytopharyngeal apparatus,** of Chilodronella cucullulus, morphology and fine structure of. 3192
- **Cytophotometric investigation,** of the DNA content of Dunaliella salina nuclei. 2566
- **Cytoplasm,**
  - of Amoeba discoides, 3H-thymidine incorporation in. 4760
  - Chlamydomonas reinhardtii, evidence for synthesis of major polypeptide of chloroplast membranes in. 1996
  - of corn, reaction to Helminthosporium maydis toxin. 3054
  - of Euglena gracilis, isolation of active polyribosomes from. 6146
  - of Euglena, guanine derivatives in pools of. 700
  - in fat-body cells of the blackfly with microsporidian infection, ultrastructure of. 5706
  - in growing yeast cells, studies on the structuredness of. 6686
  - of non-sterile, Texas male-sterile and restored Texas male-sterile corn seedlings, reactions of to Helminthosporium maydis toxin. 6967
  - reaction of corn inbreds and hybrids differing in to Helminthosporium maydis race T. 5114
  - relation of rRNA of to nucleus rRNA. 3297
- **Cytoplasm (host-cell),** ingestion of by micropores, in Eimeria alabamensis. 2138
- **Cytoplasm (Nitella),** effect of external cations on chloride activity in. 2713
- **Cytoplasm protein synthesis,** in Saccharomyces cerevisiae mutant, differentiation from mitochondrial protein synthesis. 201
- **Cytoplasmic effect,** on the leaf blast reaction in rice. 6977
- **Cytoplasmic granules,** in Tetrahymena pyriformis, qualitative and quantitative electron probe analysis of. 7091
- **Cytoplasmic infection,** in fungi, and vegetative incompatibility. 7488
- **Cytoplasmic leucyl-tRNA synthetases,** of Neurospora, effect of mutation and 'reversion' at the leu-5 locus on. 2159
- **Cytoplasmic markers,** in Saccharomyces cerevisiae, selective method for the enrichment of. 6150
- **Cytoplasmic mutants,** of Neurospora crassa, complementation among. 6186
- **Cytoplasmic mutation (mi-1),** in Neurospora crassa, altered species of mitochondrial tRNA associated with. 6761
- **Cytoplasmic petite mutants,** of yeast, mitochondrial DNA from. 7205
- **Cytoplasmic streaming,**
  - in Chara braunii, observations on. 5806
  - and saltatory movements in polarized intracellular particle transport. 6422
- **Cytosine bases (exposed and hidden),** location of in yeast tRNA$_1^{Val}$. 5315
- **Cytostatics,** determination of with Hematococcus pluvialis. 905
- **Cytotoxic action,** of fungus filtrates on Ehrlich's ascite carcinoma, screening of. 2792
- **Czechoslovakia,**
  - Amphora montana from oak-hornbeam forest at Bab in. 1294
  - Cleistothecia production by Podosphaera leucotricha. 84
  - distribution of adiaspiromycosis in small mammals in. 4400
  - ecology and distribution of Phellinus nigrolimitatus in. 4028
  - the finding of Talaromyces vermiculatus in mines in. 3901
  - Inocybe geraniodora from. 581
  - integrated pest control in forest nurseries in. 7678
  - Lamprospora lutziana in. 2542
  - Leccinum scabrum in living peat-bog in. 2387
  - microflora of grape-juice in. 3269
  - new mushroom findings in. 4737
  - operculate Discomycetes of genera Aleuria and Melastiza from. 3893
  - peculiar fructification of Macrolepiota procera in. 3159
  - trichomoniasis in. 1702

# D

**D-loops (multiple),** in Tetrahymena mitochondrial DNA. 6579
**Daconil,** control of Sclerotinia with. 6338
**Dahlbominus fuscipennis,** susceptibility of to Thelohania pristiphorae. 1088
**Daily count,** of Candida albicans in saliva, extent of variation in. 5926
**Dakar,** pericarditis in black Africans in. 1712
**Dale Peninsula,** lichens of. 1338
**Dametin,** treatment of amebiasis with. 2911
**Damping off,** of Pinus elliottii. 3052
**Damselflies,** effect of Gregarines on. 3733
**Dangeard (P.),** chronological list of publications of. 5173
**Danube,** position and perspective of research on the zooplankton of. 693
**Daphnia pulex,** ingestion, assimilation, survival and reproduction of after feeding blue-green algae. 4631
**Dapolar,** suppression of malaria with. 2218
**'Daraprim',**
  activity of on zoites and cyst development of Toxoplasma gondii in mice. 5708
  resistance to in malaria. 6279
**Dark,**
  adaptation to oxygen uptake in by obligate phototrophic blue-green algae. 1484
  appearance of methylated RNA on illumination of Euglena gracilis cells grown in. 1359
  effect of carbon/nitrogen ratio on photomorphogenesis of Aspergillus giganteus. 6645
  effect of humidity during on the transfer of assimilates from cucumber leaves to sporangia of Pseudoperonospora cubensis. 6091
  growth of blue-green algae in. 606
  growth of Nostoc in. 607
  growth of Plectonema boryanum in on glucose. 6708
  nitrate and nitrite reduction in Chlorella grown in. 270
**Dark-grown Euglena gracilis,** chloroplast RNA populations in. 1360
**Dark preincubation,** effect on blue light-induced carbondioxide incorporation in Chlorella cells. 2690
**Dark recombination,** in yeast, genetic control of. 2175
**'Darwinian' selection,** at the molecular level, genetic evidence for. 5572
**Date (moisturized Deglet Noor),** antimicrobial protection of. 5790
**Date extract (Iraqi),**
  mycological fat production from. 6058
  study of. 7472
**Daughter-cell number variation,** in multiple fission in Prototheca, control of. 6489
**Daunoblastin,** vital staining of plant cells with. 7431
**Dawson (E. Yale),** changes in intertidal algal flora of Los Angeles area since survey by. 3262
**DCMU,** control of fatty acid and lipid biosynthesis in Euglena gracilis by. 4166
**DDT,**
  alterations of spp compositions in mixed cultures of algae by. 4883
  decomposition of in soil by microorganisms. 1822
  effect of nutritional factors on degradation of by Mucor alternans. 957
  effects of various soil fungi and insecticides on the capacity of Mucor alternans in degradation of. 7033
  enzymatic breakdown by moulds. 1421
  inhibition of sodium chloride tolerance by Anacystis nidulans by. 5495
  resistance of Chlamydomonas reinhardtii to. 6691
  uptake and metabolism of by marine phytoplankton and its effect on growth and chloroplast electron transport. 4651
**DDT concentration,** interaction with light intensity on Nitzschia delicatissima. 5455
**DDT metabolites,** microbial degradation of to carbon dioxide, water and chloride. 7716
**De medium,** for growing Chlorella pyrenoidosa. 346
**Dead-arm disease,** of vine. 3788
**DEAE-cellulose,** diagnosis of Gambian trypanosomiasis by passage of blood through 2795
**Deaeration,** of aerobically grown Saccharomyces cerevisiae, effect on mitochondria. 884
**Deafness,** relationship to congenital toxoplasmosis 3683
**Deaminase (cytosine),** of Saccharomyces cerevisiae, enzymic properties and allosteric inhibition by nucleosides and nucleotides. 2607
**Deaminase (threonine),** in Saccharomyces cerevisiae involvement in multivalent repression of the isoleucine-valine pathway. 740
**Death-cap poisoning.** 6247
**Debariocidine,** purification and chemical properties of. 2755
**Decarboxylase ($\alpha$-ketobutyrate),** in Rhizoctonia solani, activity of. 179;
**Decarboxylase (orotidine-5'-phosphate),** from baker's yeast, purification and properties of. 771

**Decarboxylase (orsellinate),** from Lasallia pustulata, purification and properties of. 782
**Decarboxylase (yeast pyruvate),**
  coenzyme binding in. 732
  heterogeneity of hydrophobic structures of. 182
  number and reactivity of mercapto groups of. 5358
  spectral studies of recombination of with thiamine pyrophosphate and magnesium. 2639
**Decay,** successions of microorganisms and patterns of after wounding in red oak and white oak. 4611
**Decay rate,** following fire between oaks in North Carolina and Maine, differences in. 7702
**Decomposition,** relation to litter and mycorrhiza. 125
**Decomposition process,** during sedimentation, influence of physiological condition of sedimenting phytoplankton on. 5454
**Decontamination,** of microbiological incubators. 1576
**Decontamination procedures,** of fungi causing pulmonary diseases, effect of. 5633
**2-Decylcitrate synthase,** from Penicillium spiculisporum, properties of. 178
**Deep-sea core (subantarctic),** late Pleistoene paleotemperate oscillations defined by silicoflagellate changes in. 5295
**Deer (lesser mouse),** coccidian parasites of. 6311
**Deer (mouse),** Trypanosoma ingens from. 4043
**Deer (white-tailed),** unsuccessful attempts to establish cattle Babesia infections in. 3723
**Deer dung (roe),** Coprophilous ascomycetes on. 3086
**Defolatan,** in vitro evaluation of against Diplodia natalensis. 5513
**Defoliation,** of Cupressus lusitanica in Colombia, fungi of Glena bisulca causing. 6858
**Degradation,**
  of hyphal walls of Schizophyllum mutants with disrupted nuclear migration, R-glucanase activity in and susceptibility to. 6598
  in Neurospora, of mRNA for glucose transport system. 705
**Degradation (microbial),** of picloram and other substituted pyridines. 7004
**Degradation (periodate),** determination of nucleotide sequence in 14 dinucleotides modified by 2'-O-methylation from yeast RNA. 5313
**Dehydrase (5α-hydroxysterol),** of yeast, characterization of. 5357
**Dehydratase (δ-aminolaevulinate),**
  from Neurospora crassa, regulation of the haem-biosynthetic pathway by. 7221
  as the regulatory enzyme of the haem-biosynthetic pathway in Neurospora crassa. 6590
**Dehydratase (imidazoleglycerol phosphate),** of yeast, structural requirements for inhibition of by triazole and anion inhibitors. 1424
**Dehydratase (L-threonine),** in unicellular marine algae, comparative characterization of. 4091
**Dehydratase (threonine),** from yeast, purification and properties of. 2611
**Dehydratase activity (L-threonine),** of axenically grown Hartmannella culbertsoni. 6023
**Dehydration,**
  effect of on the content of available lysine in Candida tropicalis. 6672
  effect on UV sensitivity of yeast. 319
  in marine algae. 2714
**Dehydroacetic acid,** from basidiomycetes, production of. 835
**Dehydroalanine,** of yeast phenylalanine ammonia-lyase, purification, properties and identification of. 763
**Dehydroascorbic acid,** inactivation of yeast alcohol dehydrogenase by. 6679
**Dehydroherbarin,** from Torula herbarum, isolation and characterization of. 848
**Dehydroemetin,**
  as therapy for amoebiasis. 1713
  treatment of amoebiasis with. 2911
  in treatment of non-tropical amoebic liver abscess, significance of. 6839
**Dehydrogenase (alcohol),**
  effect of carbon sources on yeast synthesis of. 4360
  in 'Flor' yeast, induction of isoenzymes of. 5334
  in Mucorales. 160
  of yeast, inactivation of by dehydroascorbic acid and D-arabinosone. 6679
**Dehydrogenase (alcohol, glucose-6-phosphate and 6-phospho-gluconate),** from baker's yeast, release of in an industrial homogenizer. 3328
**Dehydrogenase (amino acid),** of Candida albicans during different periods of fungal growth. 7272
**Dehydrogenase (diphosphopyridine nucleotide specific isocitrate),** from yeast, purification and properties of. 2609
**Dehydrogenase (glucose-6-phosphate),**
  from fermenting and nonfermenting yeast. 2598
  from Neurospora crassa, physical properties of. 2594
  from Neurospora crassa, purification and partial characterization of. 2593
**Dehydrogenase (glutamate),**
  from Apodachlya. 3314
  from Blastocladiella emersonii, activation of by AMP. 2588
  from Blastocladiella emersonii, undirectional inhibition of. 4093
  in Neurospora crassa, regulation of as response to carbohydrates and amino acids in the media. 1980
  of Plasmodium lophurae. 190
  subunits, immunological study of the Neurospora

- **Dehydrogenase (glutamate), contd.,**
  - am mutants using antibodies prepared against. 2157
  - synthesis of during spherulation of Physarum polycephalum. 2587
- **Dehydrogenase (glutamate and lactate),** in Tetrahymena, subcellular distribution of. 7263
- **Dehydrogenase (glyceraldehyde-3-phosphate),**
  - activation of by amino acid. 2583
  - amino acid sequence of from baker's yeast. 4773
  - from Chlorella, amino acid activation of. 6582
  - specificity of in Euglena and Ochromonas. 2585
  - of yeast, 1-anilino-8-naphthalene sulphonate as a coenzyme-competitive inhibitor of. 6108
- **Dehydrogenase (histidinol),** immunological comparisons of. 418
- **Dehydrogenase (m-hydroxybenzyl alcohol),** from Penicillium urticae. 4120
- **Dehydrogenase (isocitrate and glutamate),** in Physarum polycephalum, activity during spherulation induced by mannitol. 1391
- **Dehydrogenase (α-ketoglutarate),** from baker's yeast, isolation and properties of. 2610
- **Dehydrogenase (lactate),**
  - in Colpoda maupasii, activity of. 191
  - from Rhizopus oryzae. 727
- **Dehydrogenase (L-lactate),** of Saccharomyces cerevisiae, subunit structure of. 3331
- **Dehydrogenase (lactic and glutamic),** from Entamoeba histolytica in axenic culture, activity of. 3341
- **Dehydrogenase (malate),** from Chlorella, purification of. 5323
- **Dehydrogenase (2-malate),** differential sensitivities of to the effect of glucose in Saccharomyces carlsbergensis. 5329
- **Dehydrogenase (NADH),** of Torulopsis utilis, purification and properties of. 767
- **Dehydrogenase (NAD + independent L-lactate),** from Rhizopus oryzae. 727
- **Dehydrogenase (NAD linked glutamate),** selective inhibition of during respiratory inhibition. 1396
- **Dehydrogenase (NADP-dependent triosephosphate),** synthesis of independent of illumination in Chlorella variegata. 4088
- **Dehydrogenase (NADP$^+$ specific yeast glutamate),** effect of phosphate on the oxidative deamination of glutamate. 181
- **Dehydrogenase (NAD-specific),** in yeast, inactivation in vivo of. 3338
- **Dehydrogenase (NAD$^+$ specific glutamate),** from Neurospora crassa, amino acid composition and properties of. 797
- **Dehydrogenase (nicotinamide nucleotide-dependent),** protein fluorescence of. 5978
- **Dehydrogenase (6-phosphogluconate),**
  - and the assay of uridine diphosphate glucose pyrophosphorylase in Dictyostelium discoideum. 3309
  - differentiation between the structural and redox roles of TPNH in. 6606
- **Dehydrogenase (succinate, lactate and alcohol),** in Colpoda maupasii, activity of. 191
- **Dehydrogenase (succinic),** in Polytomella caeca, localization of. 3308
- **Dehydrogenase (yeast alcohol),**
  - acetylation of sulphydryl groups in. 2637
  - behaviour of acetyl groups combined with sulphydryl groups in. 2638
  - a diazo compound for the photochemical labelling of. 774
  - effect of adenine on the photodynamic inactivatio of in the presence of riboflavin. 2735
  - electrophoretic study of the multiple molecular forms of. 2603
  - role of essential thiol groups of. 3326
- **Dehydrogenase (yeast aldehyde),** ligand interaction with. 2612
- **Dehydrogenase activity (alcohol),**
  - of baker's yeast, effect of respiratory deficiency on. 5333
  - in Saccharomyces fragilis. 5338
- **Dehydrogenase activity (glutamate),** in Coprinus lagopus, observation on. 6596
- **Dehydrogenase activity (malate),**
  - of Neurospora crassa antigenic structures of its relation with conidiogenic competence. 5246
  - in yeasts, effect of carbon source in the medium on. 1591
- **Dehydrogenase complex (pyruvate),** of Hansenula miso, isolation and properties of. 6585
- **Dehydrogenase isoenzyme synthesis (alcohol),** in Saccharomyces cerevisiae, control of. 4103
- **Dehydrogenase system (succinic),** of Ustilago maydis mitochondria, genetic evidence for the action of oxothiin and thiazole derivatives. 6131
- **Dehydrogenaseless mutants (NADPH-specific glutamate),** of Saccharomyces cerevisiae, ammonia inhibition as a general amino acid permease and its suppression in. 6595
- **C-1,2-Dehydrogenation,** of 5 β-pregnane-3,11-20-trione by Septomyxa affinis, stereochemistry of. 3376, 4176
- **Dehydrosafynol accumulation,** relationship of to Phytophthora resistance in safflower. 7620
- **Delagyl,** treatment of malarial coma with. 1717
- **Delesseriaceae,** from Hokkaido. 11
- **Demetylchlortetracycline hydrochloride,** control of spike disease of sandal by. 5135
- **Denaturation,** at the ends of the low molecular weight DNA in Stylonychia and binding of RNA polymerase. 6578
- **Dendroctonus frontalis,**
  - fungal symbionts in the prothoracic mycangium of. 7189

**Dendroctonus frontalis, contd.,**
microflora from the alimentary tract of and possible relationship to pathogenicity. 5288
**Dendroctonus ponderosae,** association with blue stain fungi and yeasts during brood development in lodgepole pine. 1321
**Dendrolimus spectabilis,** mortality factors of in the suburbs of Chiba City. 6867
**Denmark,**
endocoprophilous fungi and their sequence of occurrence in. 1324
ultrastructural observations on some marine choanoflagellates from the coast of. 7085
**Densitometry (fluorescence),** fading of aflatoxin spots on TLC plates during. 2120
**Density,** of Paramecium caudatum, effect of medium flow rate on. 5486
**Density (population),**
of green algae, influence of 'red sludge' on. 7353
of Phytophthora parasitica var. nicotianae in relation to pathogenesis and seasons. 7109
**Density gradient,**
for fractionating microsporidian spores. 2804
separation of biological particles by centrifugation in. 6711
**Density structure,** the Atlantic Ocean and Gulf of Mexico, relationships of chlorophyll maxima to. 5275
**Density of individuals,** relationship to final yield in cultivated Porphyra. 7433
**Dental plaque (human),** in vitro effect of fungal dextranase on. 2631
**Dentine (human),** ability of various microorganisms to produce enzyme activity in. 1416
**Dentine (human carious),** salivary, serum and microbial components of. 7556
**Denture adhesives,** efficiency of and possible influence on oral microorganisms. 2070
**Denture sore mouth,** nutritional deficiency and. 7528
**Denture stomatitis,** incidence of immediate and delayed hypersensitivity to Candida albicans in. 1679
**Denture surface,** study of. 7446
**Depsidone,** from Aspergillus nidulans. 5418
**Dermal sensitivity,** relationship to extracts of Candida albicans. 999
**Dermatitis (mycotic),** in sheep, cyclophosphamide in the treatment of. 2284
**Dermatitis (occupational),** role of fungal infection in the development of para-allergic reactions in. 7586
**Dermatitis (perioral),**
aetiological aspects of. 1680
Candida albicans and. 6815
**Dermatology,**
advances in in the last 25 years. 3651
antibiotics in. 6816
**Dermatology (American).** 3655
**Dermatomycoses,**
caused by Trichophyton rubrum, clinical characteristics, infectiousness and treatment of. 2237
caused by Trichophyton rubrum, clinical and experimental study of specific reactivity condition of the organism in. 409
caused by Trichophyton verrucosum, 8 cases in the North of Vaud. 2238
local use of thiabendazole for the treatment of. 2242
local treatment of with Clotrimazol. 6266
in publications in 1970, therapeutic aspects of. 2259
studies of allergy to penicillin in the course of. 2904
immunoallergic test in. 1003
**Dermatomyositis,** with mycosis fungoides. 3652
**Dermatophilosis (bovine),** epidemiology of in Minas Gerais, Brazil. 3602
**Dermatophyte infection,** role of mechanical trauma in. 2896
**Dermatophyte test medium.** 7447
**Dermatophytes,**
ATPase staining of. 357
isolation of from apparently healthy skin coats of domestic animals. 4957
lipolytic activity of. 5407
occurrence on healthy and diseased skin. 2842
of veterinary importance, scanning electron microscopy of. 4685
**Dermatophytes (foot),** in some population groups and people with arterial disease. 3599
**Dermatophytes (uncommon),** identification of. 2790
**Dermatophytes (various),** hair penetration ability of in vitro. 5631
**Dermatophytosis,**
141 cases of. 1694
due to Microsporum canis in a rhesus monkey. 3702
due to Microsporum gypseum in a rabbit. 1723
in Hamburg. 444
**Dermatophytosis (human),** injuries favouring. 4401
**Dermatoses,** the effect of yeast on eubiosis of the intestinal flora and the meaning of dysbiosis in. 1018
**Dermotropism (cryptococcal),** in the rhesus monkey. 2279
**Derryclare wood,** Connemara, lichens and lichen parasites of. 127
**Desert,**
capacity of algal crusts in to fix atmospheric nitrogen. 2385
ketocarotenoids from neutral extract of algal mat of. 228
**Desert algal habitat (endolithic),** light and scanning electron microscopy of. 3798
**Desert colouration,** biological origin of. 2541, 3802
**Desiccation,**
of Cercospora carthami and Ramularia carthami germinated conidia, ability for survival

- **Desiccation, contd.,**
  - during. 2072
  - effect of on vertical distribution and growth of assemblages of attached estuarine diatoms. 7350
- **Desmethylimipramine,** treatment of Tetrahymena cells, distribution of carbon label in metabolic pathways in. 247
- **Destrucins,** detection of in silkworm larvae infected with Metarhizium anisophliae. 3701
- **Desulphation (solvolytic),** of the polysaccharide from Laingia pacifica. 6042
- **Detergent,** action on induction of endogenous rhythm in Penicillium claviforme mutants by. 2075
- **Detergent (antiseptic),** treatment of cutaneous infections in children with. 7534
- **Detergent (phosphate versus nonphosphate),** in lake water microcosms, eutrophication potential of. 2417
- **Detergent composition,** and water quality. 5801
- **Deterioration,** of parachute nylon, effect of Penicillium janthinellum in. 1193
- **Detmer medium,** for growing Chlorella pyrenoidosa. 346
- **Detritus (organic),** in water, methods of detecting fungi in. 4034
- **Deuterated algae (fully),** discrimination against tritium by. 7430
- **Deuterium oxide,** cytokinensis of Tetrahymena synchronized by. 6127, 6689
- **Development,**
  - of Achlya bisexualis, effect of agitation on. 880
  - of Anabaena doliolum and Fischerella mucicola. 4694, 4695
  - of a chytrid isolated from Bryopsis plumosa. 4716
  - of Dictyostelium discoideum, changes in cellular adhesiveness during. 5881
  - of Dictyostelium discoideum, changes in the expression of single-copy DNA during. 5308
  - of Diplochorella amphimelaeana. 1917
  - in Griffithsia pacifica, control by internal and external factors. 6494
  - of Hemileia. 7117
  - of Histomonas meleagridis, in the male reproductive tract of Heterakis gallinarum. 1886
  - in irradiated cellular slime-moulds. 4700
  - of isolated Dictyostelium myxamoebae. 1911
  - of Lentinus tigrinus, character of endogenous growth regulators in the course of. 2036
  - of Microcystis aeruginosa, role of silt in. 3238
  - of Saccorhiza dermatodea in culture. 5872
  - of Spirogyra. 1909
  - of Trichothyrium asterophorum. 5888
  - of Zonaria farlowii. 3205
- **Development (comparative),** of Eimeria tenella in primary cultures of chicken, pheasant, partridge and turkey kidney cells. 3985
- **Development (early),** of Ulva mutabilis, gene effects in. 6756
- **Development cycles (various),** reproduction probability of benthos algae with. 5238
- **Developmental differences,** of saprophytically growing Melampsora lini race 3. 1921
- **Developmental sites,** of Trypanosoma in their flea vectors. 7129
- **Developmental stages,** of Toxoplasma. 5258
- **Devon,** zonation of corticolous lichens on oak and birch in. 671
- **Dexamethasone-treated rats,**
  - completion of life cycle of Eimeria vermiformis from the mouse in. 5257
  - effect on development of asexual cycle of Eimeri vermiformis from the mouse. 2296
- **Dexon (residual),** and the persistent effect of soil treatments for control of pea root rot caused by Aphanomyces euteiches. 1161
- **Dextran blue 2000,** mutual exchange of yeast phosphofructokinase with. 180
- **Dextranase,**
  - of Aspergillus carneus, production of. 2618
  - of Aspergillus carneus, purification and enzymatic properties of. 4109
  - of Aspergillus carneus, substrate specificity of. 6054
- **Dextranase (myco-),**
  - in vitro effect on human dental plaque. 2631
  - from Penicillium melinii, purification and properties of. 2632
- **Dextranase producing microorganisms,** simple and rapid method for demonstration of. 3555
- **Diacetyl synthesis,** inhibition of by valine and the roles of $\alpha$-ketoisovaleric acid in synthesis of diacetyl by Saccharomyces cerevisiae. 6651
- **Diagnosis,**
  - of Gambian trypanosomiasis in man. 2795
  - of Kala-Azar by Montenegro's test. 948
  - of malaria, in the USA. 4966
  - of Toxoplasmosis, critical evaluation of tests for. 6806
  - Trichomonas vaginalis infection, errors in. 2794
- **Diagnosis (differential),**
  - of cattle trypanosomiasis in Africa, studies of the applicability of serological methods to. 5600
  - of Coccidia and Toxoplasma infections. 6282
  - importance of mycology in. 7545
  - of nonspecific and amoebic ulcerative colitis. 6277
- **Diagnosis (laboratory),** of Candida vaginalis, modern aspects of. 4918
- **Diagnosis (serologic),**
  - of amoebiasis. 4978
  - of amoebiasis, fluorescent antibody test in. 497
  - of candidal infections. 4421
  - of malaria. 4988

**iagnosis (serologic), contd.,**
  - of paracoccidioidomycosis, indirect fluorescent-antibody and quantitative agar-gel immunodiffusion tests for. 7505
  - of significant genitourinary candidiasis. 6253
  - of Toxoplasmosis. 3623
  - of tropical fungus diseases, progress in. 941

**iagnosis (ultrasonic),** in hepatic pathology. 2917

**, N-Dialkylaminomethyl 2-quinoxalinyl ketoximes (anti and syn),** synthesis of as antimalarials. 4310

**, 5-Dialkyl-4-hydroxybenzylidenemalononitrile,** as fungicidal and acaricidal agents. 4302

**iamidine compounds,**
  - observations on the sensitivity to of recently isolated Trypanosoma gambiense in the Republic of Zaire. 5054
  - sensitivity to on some recently isolated Trypanosoma gambiense strs in the Republic of Zaire. 5678

**iamidine compounds (antiprotozoal),** effects of on voluntary muscle. 6896

**iamidine poisoning (experimental),** due to commonly used babecides. 2292

**, 3'-Diamidino-carbanilide diisethionate,** treatment of equine babesiosis with. 3720

**, 3'-Diaminobenzidine,** photooxidation of by blue-green algae and Chlamydomonas reinhardtii. 4844

**iaminobenzidine,** reaction on Polytomella caeca and Chlorogonium elongatum microbodies. 8

**, 4-Diamino-6-[(benzyl)amino]pyrido[2, 3-d]pyrimidines,** antimalarial and antimetabolite effects of. 7423

**iapause characteristics,** of hybrids of geographical races of European corn borer. 5060

**iaprepes abbreviatus,** muscardine fungi pathogenic to. 6869

**iaptomus cyaneus intermedius,** Astasia diaptomi parasite of. 3687

**iarrhoea (traveler's),** giardiasis as a cause of. 1699

**iatoms (pelagic),** role of foecal pellets in sedimentation of. 1808

**iatoms (relic),** from Yugoslavia. 561

**iazoacetate ester,** for the photochemical labelling of yeast alcohol dehydrogenase. 774

**iazoacetylnorleucine methyl ester,** inactivation of acid proteases from Rhizopus chinensis, Aspergillus saitoi, Mucor pusillus and calf renin by. 3454

**ibis,**
  - mycological fat production from. 6058
  - as substrate for mycological fat production. 7472

**icarboxylic acid (long-chain),** microbial production of from n-alkanes. 6078

**icetopiperazine,** of Fusarium nivale, isolation of. 1482

**4-Dichlorobenzyl-tributyl-phosphonium chloride,** effect on dermatophytic fungi. 2759

**5, 6-Dichloro-2-hydroxymethyl-benzimidazole,** as vitamin $B_6$ antagonist and synergist. 7400

**2, 6-Dichloro-4-nitroaniline,**
  - control of Helminthosporium stripe of barley by. 5112
  - control of Nectria decay of apples by post harvest dip with. 2411
  - heated wax-emulsions with for control of post harvest decay of peaches and nectarines. 4642

**2, 4-Dichlorophenoxyacetic acid,** abnormalities in the morphology of Pyronema domesticum induced by. 6092

**1, 3-Dichloropropene,** effect of on infection of potatoes by Verticillium albo-atrum. 2398

**2, 4-Dichlor-phenoxybutyric acid,** specific influence on cellulolytic processes of. 1410

**Dichlorvos,** as inhibitor of aflatoxin production on wheat, corn, rice and peanuts. 7405

**Dichroism (circular),**
  - of yeast valine tRNA 1 and its fractions. 5314
  - of yeast tRNA, effect of guanidine hydrochloride on. 7376

**Dicliny,** differentiation from androgyny in the oogonia and antheridia of Achlya flagellata. 15

**Dicloran,** resistance of spores of Botrytis cinerea strs resistant to. 912

**Dictyosomes,** in Schizosaccharomyces pombe. 3900

**Didelphis virginiana,** experimental bacteria and fungal endocarditis in. 2278

**Die-back,** in Pinus elliottii, Hendersonula causing. 1780

**Diel variation,** gross features of Peruvian upwelling system with special reference to. 2538

**Dieldrin,**
  - degradation of to carbon dioxide by Trichoderma koningi. 5771
  - growth response of blue-green algae to. 5453

**Diesterase (cyclic AMP),** inhibition of aggregation and differentiation of Dictyostelium discoideum by antibodies against. 5465

**Diet,** of rat, influence of on Trypanosoma brucei infection. 7592

**Diet (roughage concentrate),** effect of absence of rumen ciliates on growing lambs fed on. 492

**Diethyl pyrocarbonate,** treatment of wines to eliminate yeasts causing biological instability by. 1519

**Diethyl sulphate,** production of mutants of Botrytis allii with. 1542

**Diethyl sulphate (evaporated),** use of in the selection of vinous yeasts. 1538

**Diethylnitrosamine,** mutagenicity of for Saccharomyces in an in vitro hydroxylation system. 1537

**Diethylnitrosoamine-induced purple adenine ad-3 mutant,** in Neurospora crassa, genetic characterization of. 6760

- **Differentiation,**
  - of Anabaena cylindrica heterocysts. 7094
  - of Codium fragile. 6486
  - of Coscinodiscus asteromphalus. 1263
  - in Dictyostelium discoideum, acid phosphatase localization during. 5967
  - of Dictyostelium discoideum, inhibition of by antibodies against cyclic AMP diesterase. 5465
  - of Dictyostelium discoideum plasmodia. 615
  - in Eukaryotic Microorganisms. 5903
  - of fungal thallus. 83
  - of fungal cells. 7080
  - of Hypophyllum middendorfii. 6495
  - of Kuehneromyces mutabilis. 1279
  - in Physarum polycephalum, nuclear acidic protein changes during. 1998
- **Differentiation (cellular),**
  - genetic control of in Ulva mutabilis. 6756
  - in Ulva mutabilis, genetic control of. 4371
- **Differentiation (rapid),** of Phytophthora cinnamomi from other Phytophthora isolated from soil, method for by lupin baiting. 7441
- **Diffusion chamber,** immunization of mice with virulent trypanosomes in. 2865
- **Difolatan,** control of black thread in Hevea brasiliensis with. 498
- **Diformyl diaminodiphenyl sulfone,** chemoprophylactic use of in falciparum malaria. 5033
- **Digestion,**
  - of acid phosphatase in Physarum flavicomum. 6584
  - of bacteria in Entodinium caudatum, fine structural studies of. 7475
- **Digestion (intracellular),** of symbiotic zooxanthellae by host amoebocytes in giant clams. 1810
- **Digestive disturbances (non-specific),** treatment of. 3632
- **Digestive system,**
  - of aquatic insects, dispersal of algae and protozoa via. 6496
  - of aquatic insects, Harpellales from. 5285
  - Candida albicans of in napkin rashes. 5622
  - of chickens infected with Eimeria brunetti, immunized with Eimeria maxima and cross-infected with Eimeria brunetti, bacterial flora in. 5057
  - of chickens, viability of Cryptococcus neoformans in. 5661
  - demonstration of enzyme substitution in disturbed secretion in. 2624
  - of healthy southern pine beetles, microflora from. 5288
  - indirect haemagglutination test for amebiasis in patients with inflammatory disease of. 4929
  - of lambs, development of microbial activity in. 7587
  - relation of to Chagas' disease. 6835
  - silicosis in, identification of Trichosporon cutaneum in. 447
- **Digestive system contents,** of lizards, insect flagellates from. 2951
- **Digestive system immunodeficiency syndromes,** relation of giardiasis to abnormal intestinal structure and function in. 4464
- **Digitalis,** changes in cardenolide glycoside complex caused by parasitic fungi of. 3388
- **Digitonin,** fungistatic activity of as related to sterols. 7397
- **Dihydrochanoclavine** (U-$^{3}$H-marked), incorporation of into the testracyclic ergoline ring system of ergot alkaloid by Claviceps purpurea. 5414
- **Dihydropterate,** of Plasmodium chabaudi, enzymatic synthesis of and inhibition by sulfonamides. 784
- **2, 4-Dihydroxy-3, 6-dimethylbenzoic acid,** isolation of from Aspergillus terreus. 5440
- **17α, 21-Dihydroxy-16-methylene-4-pregnene-3, 20-dione,** microbial hydroxylation of. 2022
- **23-Dihydroxybenzoic acid,** in Claviceps paspali, production of. 278
- **3, 5-Dihydroxydecanoic acid,** formation of Δ-lactone of by Cephalosporium recifei. 4842
- **3β, 7β-Dihydroxykaurenolide,**
  - from Gibberella fujikuroi. 280, 4840
- **Dikaryon,** of Schizophyllum commune, microscopic study of clamp connection formation in. 632
- **Dikaryon (temporary),** of Chlamydomonas reinhardtii, flagella of. 1603
- **Dikaryotization (de-),** of Psilocybe caerulescens mycelia in various liquid culture media. 3166
- **Diketocoriolin B,** of Coriolus consors, production as derivative of coriolin B. 2025
- **Dilution rate,** response of continuous culture to stimuli in glucose feed rate and. 3551
- **Dimethirimol,** metabolism and mode of action of. 6130
- **N-Dimethyl-(β-chloroethyl)-hydrazonium chloride,** effect on Fusarium and Verticillium wilt of tomato. 1138
- **2, 5-Dimethyl-3-furancarboxylic acid anilide,** metabolism of by Rhizopus japonicus and related fungi. 3498
- **Dimethyl sulphoxide,**
  - effect of on growth, sporulation and spore germination of Rhizopus arrhizus. 5500
  - immersion of rat tail, effect on ergotamine gangrene induction. 249
  - in low-temperature preservation of Babesia bigemina. 1582
  - lysis of yeast cells and erythrocytes by. 2097
- **Dimethylallyl tryptophan,** in Claviceps species, formation from dimethylallylpyrophosphate and L tryptophan. 161
- **Diminazene,** therapeutic activity of in the equine infection with Trypanosoma evansi. 3712

**morphic phase,** of Blastomyces dermatididis, protein constituents of cell walls of. 6620
**morphism,**
  of certain parasitic fungi. 5829
  of Paecilomyces viridis controlled by antibiotics in vitro. 5515-5517
  in Saccharomycopsis. 6448
  in Verticillium albo-atrum, effect of initial spore concentration and antisporulant chemicals on. 2760
**morphism (thermal),** of Paracoccidioides brasiliensis, biochemical studies on. 5468
**namizene,** ultrastructural study of effect on trypanosomes. 1556
**nitrophenol,** sensitivity of Scenedesmus to. 2478
**4-Dinitrophenol,** effect on rhythmic mycelial growth in Podospora anserina. 625
**nitrophenol (reduced),** in Tetrahymena pyriformis mitochondria, reduction of o type cytochrome by. 219
**nocap,**
  control of mildew in apple with. 918
  effect of on water-retaining capacity of tissues of host after infection by Erysiphe graminis. 3758
**nocap spray,** effect on capacity of barley to bind water after attack by Erysiphe graminis. 2995
**oecism,** significance of in taxonomy of Chara. 562
**ols,** from lipid hydrolyzates of yeast cultured in medium containing L-rhamnose. 7297
**onaea muscipula,** foliar blight of incited by Colletotrichum gloeosporioides. 6953
**oscorea,** preharvest microbial rotting of. 3107
**phenyl sulphone,** antimalarial action of guanidine derivatives of. 3518
**phenylamine,** effect of on terminal respiration in bloodstream and culture forms of Trypanosoma brucei. 6110
**phenylamine positive material,** in synchronized and asynchronously growing yeast cells. 3464
**3-Diphosphoglycerase:polyphosphatephosphotransferase,**
  of fungi and bacteria, synthesis of polyphosphate by. 1395
  in Neurospora crassa, localization of. 1393
**phosphoinositide,** in Saccharomyces cerevisiae, metabolism of. 2699
**ploids,** of Penicillium chrysogenum, biochemical properties of. 982
**ploids (heterozygous),**
  of Aspergillus niger, citric acid synthesis by. 978
  of Penicillium chrysogenum, segregants from following different physical and chemical treatments. 981
**tera,**
  feeding on rust fungi. 503
  local malaria vector in the Philippines, status of. 1652
**Diquinones,** constituents of Gomphidius rutilis and Boletus bovinus. 284
**Discharge,**
  of ballistospore, mechanism of. 5289
  of Basidiospore in gymnosporangium. 93
  of Eutypella parasitica ascospores. 79
**Discharge (ascospore),** and ultrastructure of ascus of Leptosphaerulina australis. 1223
**Discharge (spore),** in Hysterium tamarindi, periodicity of. 303
**Discolouration,**
  of dormant bermudagrass. 6926
  successions of microorganisms and patterns of after wounding in red oak and white oak. 4611
**Disease symptoms,** of Scleroderris lagerbergii infection. 6921
**Diseases (infectious),** current problems of. 4417
**Diseases (plant),** assessment keys for. 348
**Disinfectant evaluation,** by a capacity use-dilution test. 3554
**Disinfection (shoe),** for the destruction of foot fungi with peracetic acid. 4303
**Diskinetoplastia,** cytochemical comparison of Trypanosoma in connection with their ability to. 5856
**Dismutase (super-oxide),** from Neurospora crassa, purification and properties of. 5977
**Disomic strains,** use of study arrangement of ribosomal cistrons in Saccharomyces cerevisiae. 5949
**Dispersal,**
  of algae and protozoa via the alimentary tracts of selected aquatic insects. 6496
  of Ceratocystis and Europhium clavigerum ascospore in conifer resin. 6720
  long-range, of aquatic phycomycetes by birds. 116
  of Paramecium, induced by heat. 312
  of Pseudoperonospora cubensis sporangia. 76
  by seeds of Antirrhinum majus. 119
**Dispersal (horizontal),** of cereal rust uredospores, gradients in. 3972
**Dispersal mechanism (novel),** Asterobolus with. 5092
**Dispersed phase volume,** effect on growth models of cultures with 2 liquid phases. 6730
**Dissolution,** of planktonic foraminifera. 7193
**Distillery,** and baker's yeast races, hybridization. 6766
**Distribution,**
  of acid phosphatase in Physarum flavicomum. 6584
  of American Arctic lichens. 5930
  of Cyanidium caladarium. 108
  of Laminaria. 5911
  of marine shell-boring green algae. 4719
  of Mortierella ramanniana. 4021
  of Pterosiphonia complanata. 4003
**Distribution (cosmopolitan),** of fresh-water protozoans. 5302

- **Distribution (small-scale)**, of oceanic diatoms. 6522
- **Distribution (spatial)**, of benthonic foraminifera. 4045
- **Distribution (vertical)**,
  - of ciliated Protozoa in the plankton of a eutrophic pond during summer stratification. 7198
  - effect of light intensity, desiccation and salinity on in assemblages of attached estuarine diatoms. 7350
- **Disulfiram**, inhibition of growth and rhizomorph formation in Armillaria mellea by. 5889
- **Disulphide**, in Aspergillus oryzae, $\alpha$-amylase papain and lysozyme, study of the number of. 1442
- **Disulphide (active-centre)**, of yeast thioredoxin I and II, amino acid sequence around. 1437
- **Disulphides (carbonyl and thiocarbonyl)**, inhibition of Histoplasma capsulatum by. 3499
- **Diterpenoid**, of Cyathus helenae, cyathin $A_3$ and allocyathin $B_3$ as members of group of. 6062
- **Dithane M45**,
  - control of corn blight by. 1154
  - in vitro tests with for inhibition of Colletotrichum gloeosporioides. 1550
  - in vitro trials for suppression of Colletotrichum gloeosporioides with. 2756
- **Dithane M-45/Dithane Z-78**,
  - effect on the growth of Rhizoctonia solani in vitro. 6138
  - in vitro evaluation of against Diplodia natalensis. 5513
- **Dithiocarbamate**, evaluation of against Helminthosporium sorokinianum. 2367
- **Dithiothreitol**,
  - effect on sphaeroplast formation and invertase release in yeast. 1521
  - use of to process sputa for mycological and fluorescent antibody examinations. 5533
- **Diuron**, effect on soil microflora. 5152
- **Division**,
  - in Dileptus cygnus, responses to bisections in. 7136
  - in Tetrahymena cell cycle, evidence for temporal incompatibility with DNA replication. 5904
- **Division (nuclear)**,
  - as criterion of synchrony in Scenedesmus quadricauda cultures. 5234
  - of fungal cells. 7080
- **Division (phased)**, and cytological characteristics of Pyrocystis, use in the estimation of doubling times of their populations in the sea. 5236
- **Division (unequal)**, in the formation of Meridion circulare inner valves. 6484
- **Division synchrony**,
  - in Blepharisma intermedium, temperature induction of. 7135
  - in Plasmodium vinckei chabaudi, induction of by photoperiodic rhythm. 4267
- DNA,
  - absence of complete repression of specific part of during in vitro transcription of yeast deoxyribonucleoprotein. 710
  - of Acetabularia mediterranea, investigation of. 711
  - in Allomyces, interspecific transformation of. 317
  - of Aspergillus oryzae, mode of action of crystalline nuclease O on. 6006
  - of Blastocladiella emersonii spores. 703
  - from blue-green algae, studies with. 4066
  - of coccal microorganisms isolated from lithoph lic lichens, nucleotide composition of. 7190
  - from Coprinus lagopus and Mucor azygospora, characterization of. 5312
  - from Dictyostelium discoideum, characterizati of after growth in different media. 6566
  - of Entamoeba, characterization of. 1373
  - from Entamoeba, comparison of genome size a thermal-denaturation-derived base composition of. 1632
  - of Entamoeba histolytica, characterization of by caesium chloride density centrifugation. 2576
  - of Euglena gracilis, cyclic replication of during the cell cycle. 4698
  - of fungi, pyrimidine clusters in. 4758
  - of Neurospora crassa, repair of UV light-induced damage to. 6120
  - in Neurospora crassa mycelia, effect of magnesium and polyamine levels on. 141
  - from Paramecium aurelia and Tetrahymena pyriformis genomes, purification of. 146
  - of Paramecium caudatum micronuclei, a cytofluorimetric study of. 147
  - in permeabilized yeast mutants, defective synthesis of. 1367
  - in Physarum polycephalum, control of replication of. 1974
  - in Physarum polycephalum, evolution of during sporulation. 139
  - of Plasmodium berghei, in vitro incorporation of purine derivatives into. 145
  - of Prorocentrum micans chloroplasts. 1361
  - in Prorocentrum micans chromosomes and chloroplasts, use of proteases for improve presentation of. 1563
  - of Pullularia pullulans, body resistance to the lethal effect of decay of radiophosphorus incorporated into. 2092
  - in Tetrahymena, repetition of replication sequence. 1377
  - from Tetrahymena isolated pellicles. 1968
  - in Toxoplasma, synthesis of. 149
  - of Trichospora, composition in relation to taxonomy. 44
  - in toluene-treated Chlamydomonas reinhardtii, synthesis of. 5305
  - of UV irradiated yeast, excision of Pyrimidine

**IA, contd.,**
dimers from. 1965
- from a virulent Trichomonas gallinae str, effect on pathogenicity of an avirulent str. 2745
- of yeast, kinetics and genetic control of incorporation of thymidine monophosphate in. 5952
- of zygomycetes, nucleotide composition and 6-methylaminopurine content in. 6568

**NA,**
- in Saccharomyces cerevisiae, synchronized cultures, replication of. 2574
- satellite of Euglena gracilis chloroplast DNA. 699

**IA (chloroplasts uncontaminated by nuclear),** from Euglena gracilis, isolation of. 3526

**IA (chromosomal),** in yeast, sedimentation properties of. 5311

**IA (circular),**
- from Neurospora crassa mitochondria, detection of. 3295
- from Neurospora crassa mitochondria. 5310

**IA (circular chloroplast),** from Euglena gracilis, isolation and molecular weight of. 3293

**IA (circular, repetitive),** in yeast. 5948

**IA (early and late replicating),** in Physarum, comparison of density of. 2569

**IA (extranuclear),** of Paramecium aurelia endosymbionts and. 1374

**IA (high molecular weight),** from yeast nuclei, isolation of. 7208

**IA (highly polymeric),** from fungal mycelium, isolation of. 1369

**IA (kinetoplast),**
- in an acriflacine-induced dyskinetoplastic str of Trypanosoma brucei, retention of. 1926
- of Crithidia, form and structure of. 7214
- of Trypanosoma cruzi treated with berenil, molecular organization of. 6705
- ultrastructural alterations of Trypanosoma cruzi kinetoplast induced by interaction of hydroxystilbamidine with. 1557

**IA (kinetoplast and whole cell),** of kinetoplastic and dyskinetoplastic strs of Trypanosoma. 717

**IA (low molecular weight),** in Stylonychia, binding of RNA polymerase and denaturation at the ends of. 6578

**IA (macronuclear),** of Paramecium aurelia, incorporation of DNA precursors from ingested bacteria into. 382

**IA (macronuclear and micronuclear),** of Stylonychia mytilus, electron microscopic and sedimentation analyses of. 1376

**IA (metabolic),** in ciliated protozoa, salivary gland chromosomes and mammalian cells. 5958

**IA (mitochondrial),**
- from cytoplasmic petite mutants of yeast. 7205
- and glucose repression in yeast. 4754
- investigations on the compositional heterogeneity of. 4073
- from a 'low-density' petite mutant of yeast, unusual properties of. 7210
- from a 'low-density' petite mutant of yeast, pyrimidine tract analysis of. 7211
- of Neurospora crassa, in vitro transcription of. 140
- from normal and mutant yeast cells, nearest-neighbour analysis of. 2162
- in petite mutants of yeast, hybridization of mitochondrial tRNA and. 4081
- production of mitochondrial peptide-chain elongation factors in yeast deficient in. 2573
- pyrimidine tracts of. 4074
- in Saccharomyces cerevisiae, fate of during petite induction. 970
- of Tetrahymena, multiple D-loops in. 6579
- of Tetrahymena pyriformis, modifications of after the action of ethidium bromide. 7394
- of wild-type yeast cells, preparation and heterogeneity of. 4159
- in yeast, intramolecular heterogeneity of. 5955
- from yeast, in vitro transcription of. 6576
- in yeast, number of 4S RNA genes on. 5571

**DNA (mitochondrial and nuclear),** of grande yeast, hybridization of mitochondrial tRNA. 4080

**DNA (novel closed circular duplex),** in bleached mutant and green Euglena gracilis. 6564

**DNA (nuclear and mitochondrial),** in yeast, sedimentation properties of. 5945

**DNA (nuclear and satellite),** from trypanosomes, characterization of. 3303

**DNA (precursors),** from ingested bacteria, incorporation into macronuclear DNA of Paramecium aurelia. 382

**DNA (repetitive),** in Tetrahymena, selective amplification of. 3493

**DNA (replicating, covalently closed, circular),** from kinetoplasts of Trypanosoma cruzi. 5957

**DNA (single-copy),** in Dictyostelium discoideum, changes in the expression of during development of. 5308

**DNA base composition,**
- of Candida, significance of in the classification. 1242
- of Humicola in relation to taxonomy. 6575
- of Kluyveromyces. 7204
- of Kluyveromyces, evaluation of. 5835
- in Saccharomyces, significance of in classification. 1227
- of yeast and yeast-like fungi. 4078
- of yeast-like and mycelial phases of Histoplasma capsulatum and Blastomyces dermatitidis. 7287

**DNA content,**
- in Dunaliella salina nuclei, cytophotometric investigation of. 2566
- in macronuclei of 4 clones of Paramecium caudatum with different morphological types of nuclei. 6577

**DNA fragments (chloroplast),** of Chlamydomonas reinhardtii, cyclization of. 5942
**DNA nucleotide sequence redundancy,** in Tetrahymena pyriformis, physiological control of. 3304
**DNA photoreactivating enzyme,** from baker's yeast, spectral properties of chromophoric material associated with. 2608
**DNA replication,**
  in Physarum polycephalum. 6567
  in Physarum polycephalum, control of by protein synthesis. 702
  in Tetrahymena cell cycle, evidence for temporal incompatibility with division. 5904
**DNA replication (nuclear),** dissociation of from concomitant protein synthesis in synchronous cultures of Chlorella. 4752
**DNA/RNA hybrids,** in eukaryotes, role of. 3330
**DNA/RNA hybridization studies,** in Trichoderma. 3301
**DNA strand scissions (radiation-induced),** in Chlorella during the cell cycle, repair of. 4871
**DNA synthesis,**
  in Chlorella synchronous cultures, effect of temperature on regulation of. 5458
  dependence of the nucleolar structure on. 7203
  in growing yeast after X-irradiation. 3464
  regulation of in starved-refed synchronized Tetrahymena pyriformis. 5318
  in Schizosaccharomyces pombe, measurements of during cell cycle. 1967
**DNA synthesis (mitochondrial),**
  importance of in the biogenesis of the respiratory system in yeast. 4075
  in Saccharomyces cerevisiae, cellular regulation of. 6571
**DNA synthesis (nuclear),**
  in Chlorella pyrenoidosa, selective inhibition of by 8-azaguanine. 3440
  periodicity of in the intraerythrocytic cycle of Plasmodium knowlesi. 6513
**DNA templates (rare),** participation of in DNA/RNA hybridization of Tetrahymena pyriformis. 3595
**DNase,**
  in Paramecium aurelia syngen 4 str 51. 7260
  from Rhizopus, isolation of. 1392
**DNase (bovine pancreas),** relationship between chemical structure of aflatoxins and effect on. 2028
**DNase (mitochondrial),** of yeast, stimulation of by ethidium bromide. 6594
**n-Dodecane,** fermentation of using Candida lipolytica. 3426
**Dodine resistance,** in Nectria haematococca var. cucurbitae, independent inheritance of. 964
**Dog,**
  Arthroderma simii infection in. 4494
  Babesia gibsoni infection of in Korea. 2291
  chemotherapy of Babesia infection in. 6881
  effects of $\gamma$-irradiation on Toxoplasma from. 5494
  examination of for naturally occurring amoebi infection. 989
  experimental diamidine poisoning in. 2292
  experimental histoplasmosis and blastomycos in. 1725
  with experimental pulmonary embolism, thrombolytic treatment with Brinase $^{R}$ of. 7243
  field and laboratory studies of infections of with Babesia gibsoni. 5056
  generalized cutaneous eruption in with histological similarity to human mycosis fungoides. 3706
  leishmaniasis of in Senegal. 7591
  in New Zealand, incidence and microbiology of otitis externa of. 6218
  Paecilomycosis in. 2945
  in the Philippines, Giardia canis as an unreported protozoan parasite of. 7588
  presence of Hepatozoon canis in in the Philippines. 6890
  soluble and corpuscular antigens of Babesia isolated from blood of. 3619
  sporotrichosis in. 4500
  systemic mycoses in. 2283
  from Toulouse, frequency of toxoplasma infestation of. 4990
  toxoplasmosis of in Florence. 2855
  toxoplasmosis of the nervous system of. 2313
  use in epidemiological studies of cutaneous leishmaniasis. 986
**Dog (hunting),** blastomycosis in. 6290
**Dog (normal),** occurrence of pathogenic keratinophilic fungi to man on the hair and skin of. 3601
**Dogger of the southern Jura,** foraminifera of. 40
**Dogwood (western flowering),** canker of caused Sclerophoma ambigua. 7643
**Doiryctria banksiella,** in the western gall rust. 3276
**Dolichol,** as major metabolites of mevalonate in Phytophthora cactorum. 6051
**Dolicholomonophosphates:mannosyl acceptors,** particulate in vitro system of Saccharomy cerevisiae. 226
**Dominance,**
  among pink-adenineless Schizophyllum comm mutants involving 2 discrete genes. 2178
  at a fungus mating type locus. 6211
  of mutants of meiosis and spore formation in Saccharomyces. 4383
**Donkey,** importance of as source of food and reservoir of trypanosomes for Glossina morsitans. 3710
**Dorosoma cepedianum,** algae in lateral-line can of. 3244
**Double chamber method,** permeability of Nitella internodal cell to organic substances

**ouble chamber method, contd.,** measured by. 4204
**ove erythrocytes,** variation in susceptibility of to Plasmodium gallinaceum. 3741
**rainage areas,** of different bodies of water, direct measurements of in Switzerland. 7179
**rosophila,** fitness of in relation to natural genera of yeasts. 5781
**rosophila melanogaster,**
  effect of aflatoxins $B_1$ on development of. 3382
  viability of on media supplemented with different genotypes of Saccharomyces cerevisiae. 1813
**rought resistance,** distribution of Chondropsis semiviridis in relation to. 3283
**rug activity,** against Trypanosoma cruzi blood forms. 1733
**rug concentration (trichomonicidal),** influence of normal human serum on the determination of. 7420
**rug resistance,**
  in malaria. 6279
  mutants and appearance of heterozygotes in Dictyostelium discoideum. 385
**rugs,**
  nutritional physiology and termites after selective elimination of gut symbionts with. 6704
  report on analytical mycology of. 4920
  in vitro effect of against pathogenic and non-pathogenic free-living amoebae and anaerobic amoebae. 7421
  yeast cell in anti-mitochondrial activity of. 6424
**ry inoculum,** of Colletotrichum trifolii, low temperature maintenance of virulence of. 3473
**ry season,** survival of Phytophthora palmivora in Cacao plantation during. 1162
**rying,**
  of capsulated and non-capsulated forms of Cryptoccoccus albidus var diffluens, studies of processes of by spin-echo NMR methods. 7448
  soil aeration, nitrogen mineralization and humus production in East African soils after. 7003
  of yeast for human food, effect of. 6402
**rying (direct),** spore preservation of Eremothecium ashbyi by. 6664
**rying and freezing rate,** related to effect of UV radiation of Colpoda maupasi resting cysts under low temperatures. 6125
**rying procedure (laboratory),** effect on fungal populations and aflatoxins in peanuts in Oklahoma. 3111
**ryness,** resistance against and reactivation of microfauna of wood soils. 5489
**uck,**
  association of infectious anaemia virus of with Plasmodium lophurae. 5142
  inoculated with megaloschizonts elongate and round gametocytes of Leucocytozoon simondi in. 1895
**Duck erythrocytes,** changes in the neutral glycosyl ceramides of during infection with Plasmodium lophurae. 5702
**Duckling bile and plasma,** Mucor divergence in aflatoxin effects with. 1475
**Dung,**
  Coprophilous ascomycetes on different types of. 3086
  of fallow deer, fungal flora of. 1324
  occurrence of Piptocephalis and Syncephalis on. 4617
**Dung fungi,** from Central African Republics. 3268
**Duodenum,**
  coccidiosis of, influence on free amino acid content in the muscle of the chicken. 1080
  pathogenesis of coccidiosis of caused by Eimeria acervulina. 5685
**Du Pont 1410,** evaluation of for control of red core of strawberry. 5070
**'Durenat',** activity of on zoites and cyst development of Toxoplasma gondii in mice. 5708
**Dutch elm disease,**
  aggressive str of in Britain. 4544
  and botanical variation in English elm. 5097
  in Illinois cities, municipal control of. 6905
  net photosynthesis, growth and transpiration in American elm seedlings as influenced by. 7630
  prevention of in large nursery elms by soil treatment with benomyl. 2993
  relation of mansonones to resistance against and their accumulation as induced by several agents. 1117
**Duter,**
  effect on Aspergillus niger in vitro. 6134
  effect on the growth of Rhizoctonia solani in vitro. 6138
**Dwarfing symptom,** of anther smut of sea campion, study of role of growth regulators in. 1127
**Dwarfism factors,** and resistance to Puccinia graminis tritici in durum wheat. 3761
**Dwarfism and fusiform-rust resistance,** in slash X shortleaf pine hybrids. 3767
**Dye release assay (simple),** for determining cellulolytic activity of fungi. 5540
**Dye test,** immunological response to toxoplasmosis in São Paulo as evaluated by distribution serum titres in. 7516
**Dynamics,** of a natural population of Paramecium and the role of interspecific competition in community structure. 6560
**Dynastic times,** biological relations of Egyptian and Eastern Mediterranean populations during Pre-dynastic and. 7197
**Dynastic and predynastic times,** biological relations of Egyptian and Eastern Mediterranean populations during. 6782
**Dyrene,** turf isolates of Sclerotinia homoeocarpa tolerant to. 2098

**Dysaesthesia (transient),** after Cleoquinol therapy. 451
**Dysbiosis,** in dermatoses, effect of yeast on eubiosis of the intestinal flora and the meaning of. 1018
**Dysentery,**
  experimental reproduction of in pigs in France. 7617
  specificity of inhibition of haemagglutination reaction in. 4411
**Dysentery (acute),** clinical symptoms and diagnostics of combined forms of amoebiasis with. 4476
**Dysentery (amoebic),**
  chloroquine in. 1040
  extensive stenosis of the colon and fistula formation following. 2258
**Dysentery (amoebic and bacillary),** and the enteric fevers. 1041
**Dysidrosis,** skin diseases among hairdressers with particular regard to. 6219
**Dyskinetoplasy,** of Trypanosoma gambiense, provocation by ethidium bromide in experimentally infected mice. 1074
**Dyskinetoplasty,** of Trypanosoma, kinetoplast and whole cell DNA in. 717
**Dyskinetoplasty (acriflavine-induced),** in Trypanosoma brucei, retention of kinetoplast DNA in. 1926
**Dysplastic cells,** of Ditylum brightwelli cultures, silica availability and formation of. 2809
**Dzeta-potential,** of Chlorella vulgaris cells, dispersion of. 2420

## E

**Ear rot,**
  hyper-susceptibility of high-lysine corn to. 3836
  importance of. 6324
**Earth,** maintenance of radiation effect in $\gamma$-irradiated yeasts on. 2089
**East Coast fever,**
  application of the indirect fluorescent antibody test in. 491
  glucose-6-phosphate dehydrogenase levels in haemoglobin types of cattle in East Africa in relation to resistance to. 4521
**East Coast fever (experimental),** indirect fluorescent antibody test for. 6239
**Eburiocoic acid,** from Lenzites thermophila. 6633
**Echinulin,** biosynthesis of. 6038
**Ecological implications,** of culture studies on Nereocystis lüetkeana. 7159
**Ecological significance,** of moisture content and net assimilation rate of lichen thalli. 4747
**Ecology,**
  of algae on terrestrial rock surfaces in North Wales. 1939
  of Armillaria mellea in the indigenous and exoti
  woodlands of Rhodesia. 5922
  of Cercosporella herpotrichoides infections of wheat. 2351
  of Desmarestia associated with the sea pen. 252
  of free living Ciliata. 2558
  of Sameioneis carinaes. 1298
  of Schizoblastosporion starkeyi-henricii. 3270
  of Testacean communities. 4050
  use of calorimetry in. 1830
  of Woloszynskia tenuissimum from Abbot's Pool
  Somerset. 1843
**Economic red algae,** ecological studies of. 5914
**Ecosystem,** fungi in. 2551, 3279, 4745
**Ecosystem (Antarctic upwelling),** relative importance of habitat variables in predicting the distribution of phytoplankton at the ecotone of. 4005
**Ecosystem (freshwater lake),** nutrient composition of. 4007
**Ecotone of Antarctic upwelling ecosystem,** relative importance of habitat variables in predicting the distribution of phytoplankton at. 4005
**Ecotopes (natural and artificial),** local distribution and dispersion of triatomids in. 2197
**Ectosymbionts (fungal),** of adult female Xyleborus ferrugineus, comparative phospholipid compositions of. 6057
**Eczema (anal),** in adults and children, mycological studies on. 5005
**Eczema marginatum,** local use of thiabendazole for the treatment of. 2242
**Eczema marginatum (Hebra's),** epidemiology of. 4402
**Eel serum,** isolation and purification of fucoxylomannan from Fomes annosus fruit bodies by precipitation with H-agglutinin. 4160
**Effluent,** of steel works, effects of. 7021
**Effluent systems (Yellowstone thermal),** ecology of 7141
**Egg,**
  of Fucus, photopolarizability of. 3957
  of Fucus serratus, detection and isolation of the attractant released by. 5432
  of Pelvetia, ionic concentrations in during development. 5870
**Egg (Anobiid),** scanning electron microscopy of the surfaces of. 3282
**Egg (developing fucoid),** membrane potential and impedance of. 5871
**Egg (fish),** Leucothrix mucor infestation of. 4014
**Egypt,**
  collection of operculate discomycete from Cairo in. 6446

**Egypt,** contd.,
  germination, sporulation and growth of causal organism of cotton wilt in. 1963
  isolation of Toxoplasma from Rattus norvegicus in. 3609
  occurrence of powdery mildews of roselle mulberry in. 3760
  occurrence of yeast in soils in. 1170
  selective effects of 3 fumigants on soil fungi in. 2396
  studies on pityriasis versicolor in. 2895
  toxoplasma indirect fluorescent antibody and indirect haemagglutination serological survey among hospital patients in. 4436
  Ulocladium from. 7083
**Egypt (upper),** citrus plantation fungi in. 1798
**Egyptian populations,** biological relations of with Eastern Mediterranean populations during predynastic and dynastic times. 6782, 7197
**Ehrlich's ascites carcinoma,** screening of cytotoxic action of fungus filtrates on. 2792
**Eire,** the lichens and lichen parasites of Derryclare wood, Connemara. 127
**Elasmobranch,** developmental stages of Haemogregarina felagei in. 6889
**Elastase (fungal),** determination of. 947
**Elastase activity,** in Microsporum gypseum, determination of in clinical isolates. 1246
**Elastolytic activity,** induction of into alkaline proteinase from Aspergillus sojae. 1415
**Electric control (bio),** of ciliary activity. 5810
**Electric field,** mobility of Leishmania tropica promastigotes in. 5481
**Electric Power Plant (Crystal River),** benthic marine algae from waters adjacent to. 4008
**Electric response,** to mechanical stimulation of the anterior surface of Paramecium, 2 components of. 7381
**Electrical activity (photoinduced),** of Nitella cells under the influence of cyanide, change in. 5497
**Electrical mobility,** of potassium in Phycomyces blakesleeanus sporangiophore. 2694
**Electrical properties,**
  in an excitable membrane, genetic modification of. 5586
  of Nitella flexillis. 297
**Electrical properties (membrane),** of Chaetomorphus. 1199
**Electrically excitable membrane,** in Paramecium aurelia, genetic mutants with altered system of. 2184
**Electromagnetic field (urban low- and radio-frequency),** influence of on phagocytosis and multiplication of single-celled organisms. 7391
**Electromagnetic waves,** effect of magnetic fields associated with on trypanosomic orchitis in rabbits. 5676
**Electron acceptors,** of $\beta$-cyclopiazonate oxidocyclase from Penicillium cyclopium. 4119
**Electron cyclic flow cofactors,** effect on induction transfer of fluorescence and photophosphorylation efficiency in Chlorella. 152
**Electron donor specificity,** of the nitrate reductase from Ankistrodesmus. 3306
**Electron donor systems (physiological),** to Anabaena cylindrica nitrogenase. 1382
**Electronic paramagnetic resonance,** study of interaction of yeast enolase with activating metal ions. 183
**Electron probe analysis (qualitative and quantitative),** of cytoplasmic granules in Tetrahymena pyriformis. 7091
**Electron spin resonance,** in $^{13}C$-labelled chlorophyll and $^{13}C$-labelled algae. 7719
**Electron spin resonance spin-label distribution,** of fatty acid desaturase mutants of yeast. 2837
**Electron transport activity (respiratory),** in marine phytoplankton, measurement of. 1564
**Electron transport chain (branched),** in Trypanosoma mega. 5360
**Electron transport components,** of wild-type and poky Neurospora crassa. 5375
**Electron transport system,**
  of green plants, photosynthesis of. 7331
  of Ustilago maydis and Saccharomyces cerevisiae, effect of oxathiin systemic fungicides on. 5505
**Electronic scanner,** for assessment of plant diseases. 348
**Electrophoresis,**
  and activity of rennin-like enzyme from Aspergillus niger, investigation of. 4111
  study of the enzyme complex of Aspergillus oryzae. 752
**Electrophoresis (antigen-antibody crossed),**
  applied to the study of antigenic structure of Candida albicans. 998
  of soluble proteins in Spirulina. 6028
**Electrophoresis (cell),** of Dictyostelium discoideum. 3143, 3144
**Electrophoresis (comparative),** and numerical taxonomy of Candida. 7075
**Electrophoresis (counterimmuno),** demonstration of Candida precipitins in human sera by. 2861
**Electrophoresis (disc),** protein and esterase patterns of Streptomyces from Maine potatoes. 215
**Electrophoresis (dodecyl sulphate gel),** differences in size and number of 80S and 70S ribosomal proteins by. 3346
**Electrophoresis (immuno),** specific precipitant antibodies in South American blastomycosis revealed by. 1653
**Electrophoresis (micro),** detection of microcapsules in microorganisms and control of decapsulation by. 3170
**Electrophoresis (micro disc),** of glucose-6-phosphate dehydrogenase at the cellular level. 7258

**Electrophoresis (modified antigen-antibody crossed),** for characterization of specificity and titre of human precipitins against Candida albicans. 3610
**Electrophoresis (polyacrylamide gel),** of commercial pronase-P from Streptomyces griseus. 780
**Electrophoresis (polyacrylamide gel disc),** differentiation of Aspergillus oryzae from A. sojae by. 5212
**Electrophoresis (quantitative immuno),** human precipitins against Candida albicans demonstrated by. 2857
**Electrophoresis technique (counter immuno),** serologic diagnosis of invasive amoebiases with. 3616
**Electrophoretic analysis,** of wall glycoproteins in normal and mutant cells. 7265
**Electrophoretic determination,** of amylase in the post-embryonic stage of Labeo rohita. 3850
**Electrophoretic study,** of alkaline proteinases from Aspergillus flavus group. 7241
**Electrophoretic study (immuno),** on resistant and susceptible water-melon vars to Fusarium semitectum. 1002
**Electrostatic changes,** induction of elastolytic activity into alkaline proteinase from Aspergillus sojae via. 1415
**Elements,** importance of the physicochemical state of for their accumulation in marine organisms. 5430
**Elephant (African),** in Kruger National Park, parasitic and other natural diseases of. 5587, 5667
**Elettaria cardamomum,** new Phytophthora disease of. 5716
**Ellagitannins,** in the heartwood of Quercus alba, inhibition of wood-rotting fungi by. 7404
**Elliptocytosis (hereditary),** associated with severe haemolytic anaemia and malaria. 5037
**Ellman's reagent,** reaction of protein disulphide groups with. 1442
**Elm,** aggressive str of Ceratocystis ulmi infecting. 4544
**Elm (American),** effect of Ceratocystis ulmi on the phloem and vascular cambium of. 6328
**Elm (English),** Dutch elm disease and botanical variation in. 5097
**Elm seedlings (American),** net photosynthesis, growth and transpiration in as influenced by Dutch elm disease and plant-water stress. 7630
**Elodea leaves,** effect of chemical compounds on slow far-red induced afterglow from. 3441
**Elutriation (centrifugal),** for removal of leucocytes from malaria-infected monkey blood. 954
**Embden-Meyerhof-Parnas pathways,** in Aspergillus niger growth cycle, changes in activities of. 172
**Embolism (experimental pulmonary),** thrombolytic treatment with Brinase $^R$ of dogs with. 7243
**Embryo,**
  of chicken, changes in the allantoic fluid composition of during development in relatio
  to Trypanosoma brucei. 6303
  of the chicken, effect of changes in the allantoic fluid composition during the development of on the viability of Trypanosoma brucei. 5674
  of mouse, development of Plasmodium berghei berghei in. 5698
**Embryogeny,** effect of Trypanosoma cruzi infectio
  in gravid mice on. 1070
**Embryonic tissue,** of Ophryoglena mucifera, inhibitory action in certain pentavalent salts of mitogenic properties of. 4285
**Emerita analoga,** carotenoid pigments and their possible role in the reproduction in. 7007
**Emetine,**
  effect of on macromolecular synthesis in synchronized Tetrahymena pyriformis. 5487
  treatment of amebiasis with. 2911
  treatment of Budd-Chiari syndrome caused by amoebic liver abscess with. 2923
**Emetine hydrochloride,**
  effect on Entamoeba histolytica trophozoite. 3510
  effect on Entamoeba histolytica in vitro. 3511
**Emission band,** at 700 nm, in green algae at room temperature. 4835
**Emphysema (equine pulmonary),** broncho-pulmona
  mould allergy. 7582
**EMS,** production of mutants of Botrytis allii with. 1542
**Encephalitis (primary amoebic meningo).** 7565
**Encephalitis (toxoplasma),** in a raw steak eater. 6848
**Encephalitis infectiosa vulpis,** in a bluefox farm. 1750
**Encephalitozoonosis,**
  evidence for vertical transmission of. 7599
  toxoplasmosis and. 1751
**Encystment,**
  of Acanthamoeba, correlation of cellulose synthesis in vivo and in vitro during. 7290
  of Acanthamoeba, exocytosis of latex beads during. 1927
  of axenically growth Hartmannella culbertsoni, serological changes associated with. 3983
  of Blastocladiella emersonii zoospores, light induction of. 3451
  of Bodo caudatus. 6510
  of Entamoeba histolytica. 2136
  of Entamoeba histolytica, effect of freezing on in culture. 2137
  of Entamoeba invadens in monoxenic and axenic cultures. 3982
  of Fabrea salina, mechanism of. 3987
  of Hartmanella culbertsoni. 3984
  in Opalina ranarum. 7139

**ncystment, contd.,**
of Schizopyrenus russelli, changes in the levels of some macromolecules and enzymes during. 189
of Synchytrium mercurialis, ultrastructure of nucleus during. 576
of Woloszynskia tylota, light and electron-microscopical study of. 3955
**ncystment (synchronous),** of Phytophthora palmivora zoospores, cyst wall formation and endogenous carbohydrate utilization during. 1269
**ndocarditis,**
caused by Aspergillus fumigatus, a case of an aortic homograft. 430
of mitral valve, urgent open-heart surgery for. 5004
**ndocarditis (active infective),** confinement of to mural endocardium. 5624
**ndocarditis (Candida),** management of. 3643
**ndocarditis (Curvularia),** following cardiac surgery. 2234
**ndocarditis (experimental),** in rabbits. 6863
**ndocarditis (experimental bacterial and fungal),** in the opossum. 2278
**ndocarditis (fungal),** secondary to drug addiction. 6259
**ndocarditis (left-sided valvular active infective),** 45 cases of. 7550
**ndocarditis (prosthetic valve).** 6821
**ndocarditis (prothesis),** after alloplastic replacement of the aorta valves, therapeutic problems of. 1020
**ndocarditis (right-sided valvular infective),** 12 cases of. 7524
**ndocrine reaction,** of host animal to parasitic infections. 6876
**ndocoprophilous fungi,** from Denmark, and their sequence of occurrence. 1324
**ndocytosis,**
induction of in starved Tetrahymena pyriformis. 6115
in Tetrahymena pyriformis, periodicity of. 2820
**ndoerythrocytary forms,** of Plasmodium berghei, mechanism of action of viral inducer of interferon in protection of mice against massive infestation by. 3620
**ndogenous rhythm,** of the productivity in Chlorella and the influence of light. 6082
**ndometritis (mycotic),** case report due to Candida. 3644
**ndophthalmitis (endogenous Candida).** 5620
**ndophytic species,** of Acrochaetium, in situ and in vitro studies on. 1210
**ndoplasmic reticulum,** Saprolegnia monoica, changes in during sporogenesis. 2490
**ndoplasmic reticulum (granular),** in Amoeba proteus, connection between cisternae of the Golgi apparatus and. 3182
**Endosymbionts,** of Paramecium aurelia, extranuclear DNA and. 1374
**Endosymbiotic fungi,** localization of on the surfaces of Anobiid eggs. 3282
**Endotoxin,**
effect of serum from treated rats on isolated Trypanosoma equiperdum. 421
immunosuppressive properties of and effects on toxicity of $\alpha$-amanitin and hexobarbital. 2940
Trypanosoma equiperdum test in studies on the radioprotective action of. 362
**Endotoxin resistance (passively transferred),** role of platelets in. 2212
**Endozoic species,** of Acrochaetium, in situ and in vitro studies on. 1210
**Endrin,** growth response of blue-green algae to. 5453
**Energy conservation,** statistical model for the initial and non-thermal vibrational-rotational population distribution of diatomic spp. 925
**Energy expenditure,** for gliding motility in blue-green alga. 3119
**Energy flow,** in Saccharomyces cerevisiae, regulation of. 4802
**Energy metabolism,** influence of inhibitors of on the formation of Golgi bodies in amoebae. 6111
**Energy substrate utilization,** relationship with specific growth rate in Aspergillus nidulans. 377
**Energy transfer,** in the food chain glucose-Azotobacter agile-Tetrahymena pyriformis, use of $^{14}C$ for determining efficiency of. 383
**Enolase,**
of yeast, effect of exopeptidase digestion on. 736
of yeast, fluorescence of produced by substrates and competitive inhibitors in the presence of excess $Mg^{2+}$. 772
of yeast, interaction with activating metal ions, electron paramagnetic resonance study of. 183
**Enovit,**
control of Botrytis cinerea mycosis in strawberry cultivars with. 6945
treatment of flower and branch monilia of stone fruit with. 3783
**Enrichment experiments,** in the Riveristal reservoir. 4933
**Enteric fever,** amoebic and bacillary dysentery and. 1041
**Enteritis,** secondary to Giardia lamblia in students travelling on tour in Russia. 4463
**Enteritis (haemorrhagic swine),** in France, experimental reproduction of. 7617
**Enteritis (mycotic),** in a cat. 5656
**Enterobius eggs,** transfer of Dientamoeba fragilis with. 7563
**Entomogenous fungi,** list of, from Israel. 121

**Entomopathogenic fungi,** effect of joint culture on the growth of. 5925

**Entomophthoraceae,**
- fatty acid composition of. 232
- laboratory evaluation of methods for inoculating termites with. 7439

**Enucleation,**
- of amoebae, staining of Golgi apparatus. 54
- of mammalian cells by cytochalasin B. 7312, 7313

**Envelope,**
- of eccrinales trichomycetes, ultrastructure of. 3891
- of yeast grown in media with different carbon sources, study of lipoprotein complex of. 4171

**Envelope (macronuclear),** of Tetrahymena pyriformis GL in different physiological states, structure and functional aspects of nuclear pore complex of. 6481

**Envelopment,** in Hansenula wingei, during ascosporogenesis. 623

**Environment,**
- influence of on mitochondrial function in yeast. 7369
- of Schizophyllum commune, assessment of in relation to genotype. 5581

**Environmental control,** of cell synthesis and function. 4017

**Environmental factors,** effect on Conidia formation by Cercospora beticola on sugar beets. 4257

**Enzymatic activity,**
- of dermatotrophic and non-dermatotrophic mycetes, comparative investigations on. 6612
- in microbodies and mitochondria of Euglena gracilis, environmental factors controlling. 5964
- of spherules of Emmonsia crescens. 1989

**Enzymatic determination,** of L-lysine in biological materials. 7451

**Enzymatic digestion,** of Trypanosoma kinetoplasts, studies of ultra-structure by. 1254

**Enzymatic evidence,** for peroxisomes in Chlorella vulgaris mutants. 2584

**Enzymatic systems,** of Beauveria bassiana on the cuticle of Galleria mellonella. 3695

**Enzyme activity,**
- of Chlorogonium elongatum, changes in in response to red and blue light. 6660
- in non-dividing Euglena cultures, persisting circadian oscillations in. 5963
- in yeast, alteration in associated with changes in cultural conditions and growth phase. 2144

**Enzyme complexes (multi-),** in the aromatic/ tryptophan pathway of Neurospora crassa, purification of. 6589

**Enzyme function (single),** restoration of in bifunctionally defective non-polar pyrimidine-3 mutants of Neurospora. 4946

**Enzyme kinetics,** of $\beta$-cyclopiazonate oxidocyclase from Penicillium cyclopium. 4119

**Enzyme levels (soluble),** acriflavine-induced changes in in Crithidia fasciculata. 4860

**Enzyme potential,** in Schizosaccharomyces pombe measurement of during cell cycle. 1967

**Enzyme reactions,** involved in photosynthetic sulphate-reduction in cell-free systems of spinach chloroplasts and Chlorella. 4087

**Enzyme reaction (dual),** in cilia, transient analysis of. 7037

**Enzyme substitution,** in disturbed secretion in the gastrointestinal tract, demonstration o 2624

**Enzyme synthesis,**
- during respiratory inhibition of Neurospora, selective inhibition of. 164
- induced by oxygen wild-type and petite yeast, effect of chloramphenicol isomers and erythromycin on. 5502
- selective inhibition of under conditions of respiratory inhibition. 1396

**Enzyme synthesis (phage DNA directed),** in in vitro system from yeast mitochondria. 598

**Enzymes,**
- in Acanthamoeba castellanii, properties of in microsomal membranes. 783
- of Aspergillus oryzae, study of by electrophoresis and immunoelectrophoresis. 752
- in barley leaves infected with Erysiphe grami f. sp. hordei, multiple molecular forms o 6908
- of Chlamydomonas, electrophoretic analysis 722
- during encystment of Schizopyrenus russelli changes in the levels of. 189
- of Emmonsia crescens spherules. 2627
- from Fusarium graminearum, electrophoreti patterns of. 177
- peas infected with Fusarium oxysporum f. sp pisi race 1, multiple molecular forms of. 6361
- of Pythium, effect of cholesterol on. 233
- of Rhodotorula gracilis, induction of for D-xylose catabolism. 764
- of Saccharomyces, relationship to biosynthet pathway of lysine. 4138
- of sulphur metabolism in Neurospora, contro of synthesis in turnover of. 5976
- of sulphur metabolism in Neurospora crassa, mutation causing derepression of. 2829
- from yeast after growth on n-alkanes, comparative investigations on activity determination of. 6154

**Enzymes (aromatic, biosynthetic and catabolic),** in Ustilago. 7237

**Enzymes (ATP-synthesizing),** in Chlamydomona reinhardtii, effects of a mutation altering. 2821

**Enzymes (carotenogenic),** in Phycomyces, evidence for quantitative complementation

**nzymes (carotenogenic), contd.,** 725

**nzymes (crystalline),** degradation of cell wall of living yeast by. 4096

**nzymes (DNA-photoreactivating),**
  from Anacystis nidulans, excitation and fluorescence spectra of chromophore associated with. 579
  from baker's yeast, spectral properties of chromophoric material associated with. 2608

**nzymes (extracellular),** in Neurospora crassa, cell wall alterations associated with the hyperproduction of. 7222

**nzymes (fungal),**
  hydrolysis of starch from different plant sources by. 4114
  utilization of in the liquefaction of soft fruits and extraction and clarification of fruit juices. 4122

**nzymes (hydrolytic),**
  of Aspergillus sojae mutants, hyperproduction of. 174
  from Candida albicans pathogenic strs, production of. 255
  in Coprinus autolysis, function of. 1405

**nzymes (inactivating),** for pyridoxal enzymes from yeast and rat, comparative studies on. 4121

**nzymes (intra- and extracellular),** in Trametes, comparative studies of. 2614

**nzymes (lytic),**
  of Actinomyces globisporus, biosynthesis of and effect on Candida. 4298
  of Basidiomycetes, properties of. 743
  of Basidiomycetes, purification of. 744
  turbidimetric determination of action of on yeast. 2730

**nzymes (malic),** in Neurospora crassa, regulation of. 6587

**nzymes (microbodial),** in Polytomella caeca, localization of. 3308

**nzymes (molybdenum),** nitrate reductase from Neurospora mutant and component of. 2597

**nzymes (nucleic acid-splitting),** in Triticum aestivum leaves following infection with Puccinia graminis tritici. 6347

**nzymes (pectic),** produced by Diplodia gossypina in vitro and in infected cotton bolls. 1136

**nzymes (pectinolytic),** from Phytophthora. 1977

**nzymes (pectolytic and cellulolytic),** from Cercosporella herpotrichoides. 176

**nzymes (polyphosphate synthesizing),** of fungi and bacteria. 1395

**nzymes (proteolytic),**
  of Cladosporium, Fusarium and Alternaria, study of production and fibrinolytic activity of. 761
  involvement of in protoplasmic incompatibility. 1981
  of Microsporum canis, localization and secretion of. 1422

**Enzymes (various),** sensitivity of sex cell contact to in isogamous dioecious chlamydomonads. 6644

**Eocene,** benthonic foraminifera of. 7191

**Eosine,**
  asporogenous yeast mutants susceptible to staining on medium containing. 980
  Candida guilliermondii mutants susceptible to staining on medium containing. 2181

**Eosinophilia,** with Pneumocystis carinii pneumonia and immunodeficiency syndromes. 4492

**Epidemiology,**
  of Cercosporella herpotrichoides infections of wheat. 2351
  of Dientamoeba fragilis. 7563
  of Dientamoeba fragilis in childrens' collectives. 7562
  of Scleroderris lagerbergii. 6917
  of toxoplasmosis in Puerto Rican children. 4434
  of yeast diseases in newborns and young children. 2841

**Epidemiology (sero),** of malaria. 4988

**Epidermis (hypertrophied siphonal),** nutritional role of in digestion of symbiotic zooxanthellae by host amoebocytes in giant clams. 1810

**Epiflora,** of oat seed treated with organomercury. 4033

**10-Epigualoxide,** from Streptomyces purpurescens, production from sesquiterpenoids. 292

**Epilachna vigintioctopunctata,** Aspergillus flavus of. 5655

**Epimastigotes,** comparison of new antigen from amastigotes of Trypanosoma cruzi with antigen from for the diagnosis of Chagas' disease. 1661

**Epimerase (glucose-6-phosphate-1),** from baker's yeast. 5984

**Epimerase (NAD-dependent UDPGal-4),** in Torulopsis candida, activation of by 5'-UMP and galactose. 2633

**Epimerase (UDPglucose 4-),** from Saccharomyces fragilis and goat liver, nucleotide inhibition of. 2722

**Epinephrine activation,** of adenyl cyclase from Tetrahymena pyriformis. 7262

**Epipelic algal communities,** in Marion Lake, ecology of. 2540

**Epiphytes (algae and bacteria),** interaction with macrophytes in littoral of a lake. 111, 652

**Epiphytes (lichens),** in aspen woods of various ages around Moscow. 126

**Epipods,** in Lesquereusia spiralis, observations on. 56

**3-Episcillarenin,**
  oxygenation of by Rhizopus spp. 2043
  structure elucidation of the products of the microbial oxygenation of. 2044

**Epistaxis,** and obstruction of the nasal passage caused by Rhinosporidium seeberi. 2248

- **Epithelium (pseudo)**, of the lower lip hyperkeratinized moniliasis of. 6254
- **Epizootics (entomophthorosis)**, in Acyrthosiphon pisum. 4493
- **Epoxide (unusual halogenated)**, from Laurencia johnstonii. 3407
- **(±)-Epoxyfarcesol**, fungal metabolism of and its absolute stereochemistry. 6079
- **5α, 6α-Epoxy-3β hydroxy-5α-pregnane-20-ones**, microbiological hydroxylation of with further transformations. 4173
- **Equids**, Klossiella equi from. 7134
- **Equus asinus**, importance of as source of food and reservoir of trypanosomes for Glossina morsitans. 3710
- **Ergocornine**, biosynthesis of. 4818
- **Ergocryptine**,
  - in Aspergillus flavus, biosynthesis of. 207
  - biosynthesis of. 4818
- **Ergocryptine str of ergot**, composition of alkaloids in. 4821
- **Ergoline ring system (tetracyclic)**, of ergot alkaloid Claviceps purpurea, incorporation of U-$^3$H-marked dihydrochanoclavine into.
- **Ergometrine**,
  - biosynthesis of. 4819
  - from Claviceps, production of. 6631
- **Ergosta-5,7,9 (11), 22-tetraen-3 beta-ol**, from Mucor rouxii, isolation and biosynthesis of. 6625
- **Ergosta-7,2224 (28)-trien-3β-ol**, in Saccharomyces cerevisiae, synthesis and metabolism of. 5402
- **Δ$^{8(9),22}$-Ergostadiene-3β-ol**, accumulation of in wild-type and mutants of yeast. 5403
- **Ergosterine**, from yeast, investigation of process of obtaining. 829
- **Ergosterol**,
  - correlation between oligomycin-sensitivity and in a purified mitochondrial ATPase from Saccharomyces cerevisiae. 5992
  - in Mucor, presence of. 5401
  - in parasitic fungi. 6627
  - in Schizosaccharomyces japonicus. 909
  - in Tetrahymena membranes, replacing tetrahymanol. 245
  - in yeast, biosynthetic routes to. 7296
- **Ergosterol precursor**, accumulation of in wild-type and mutants of yeast. 5403
- **Ergosterol synthesis**, in Ustilago maydis, inhibition of by triarimol. 4293
- **Ergosteryl**, constituent of Heterobasidion tasmanica. 285
- **Ergosteryl peroxide**, constituent of Heterobasidion tasmanica. 285
- **Ergot**,
  - biology and control of on male sterile wheat and barley. 1105
  - composition of alkaloids in the ergocryptine str of. 4821
  - isolation of dimethylallylpyrophosphate: tryptophan dimethylallyl transferase. 161
  - as recurring problem of grasses and small grains. 6329
- **Ergot alkaloids**,
  - in fungi, biosynthetic route from tryptophan to. 7302
  - gas chromatography of. 1476
- **Ergot derivatives (rye)**, clinical aspects of intoxications by. 3625
- **Ergotamine**,
  - biosynthesis of. 4817
  - a cause of gangrene in various inflammatory conditions. 249
- **Ergotoxine**, from Claviceps, production of. 6631
- **Eriobotrya japonica**, new disease of. 5751
- **Eriochloa procera**, Helminthosporium maydis on 4589
- **Error**, on a zooplankton count, calculation of. 3
- **Erythrasma**,
  - in Hamburg. 444
  - local use of thiabendazole for the treatment of 2242
- **Erythro compounds**, antimalarial activity and conformation of. 3513
- **Erythrocyte lipids**, of rhesus monkey, studies o after Plasmodium knowlesi infection. 2973
- **Erythrocyte morphology**, relation to chickens, r and mice, parasitized by Plasmodium. 506
- **Erythrocyte susceptibility**, to Plasmodium gallinaceum, hereditary transmission of. 2307
- **Erythrocytes**,
  - in cardiac vessels, ultrastructure of in Plasmodium falciparum malaria. 2306
  - of dove, variation in susceptibility of to Plasmodium gallinaceum. 3741
  - of duck, changes in the neutral glycosyl ceramides of during infection with Plasmod lophurae. 5702
  - lysis of by dimethylsuphoxide. 2097
  - of Macaca mulatta, distribution and ultrastructure of Plasmodium knowlesi in. 2308
  - in monkeys infected with Plasmodium cynomol destruction of. 3739
  - infected with malarial parasites, junctional apparatus in. 2969
  - isotopic tracer techniques for studying the preference of Plasmodium berghei for a particular age group of. 2802
- **Erythrocytes (haemogregarine-infected)**, of rock lizards, shifts in the haemoglobin and total protein contents in. 7602
- **Erythrocytes (sheep)**, cytodynamic study of imm response to in rat infected with Plasmodiu berghei. 3621
- **Erythrocytic cycle (intra)**, of Plasmodium knowl periodicity of nuclear DNA synthesis in. 6
- **Erythrocytic development (pre)**, of Plasmodium berghei in the tree rat, ultrastructure of.

**rythrocytic forms,** of Plasmodium berghei, effect of iron and chloroquine on. 4522
**rythrocytic stages (exo-),**
  of Plasmodium hylobati, studies on. 3942
  of simian malaria. 4525
**rythromycin,**
  Actinomyces erythreus producing and respiration. 289
  effect on Entamoeba histolytica trophozoites. 3510
  effects of on enzyme and lipid synthesis induced by oxygen in wild-type and petite yeast. 5502
  effects of on ultrastructure of mitochondria in sensitive and resistant Paramecium. 6707
  securing SPF-mice by decontamination with. 917
  sensitivity of amoebae to. 2762
  treatment of amebiasis with. 2911
  in the treatment of pulmonary mycoses. 2241
**rythromycin resistant mutant,** of Paramecium, altered mitochondrial ribosomes in. 6706
**rythrostominone/deoxyerythrostominone/deoxyerythrostominol,** from Gnomonia erythrostoma, structures of. 3412
**scherichia coli,**
  in continuous culture, predator-prey interactions of Dictyostelium discoideum with. 6147
  interspecies aminoacylation of tRNA from. 5944
  phage development in and mutations in fungi induced by analogues of tris-(1-aziridinyl) phosphine oxide. 898
**scherichia coli cell walls,** degradation of murein-lipoprotein complex of by Dictyostelium amoebae. 4810
**scherichia coli K12,** metabolism of 12-keto-octadecanoic acid by. 4813
**scherichia coli valyl-tRNA,** heterologous charging of Neurospora crassa phenylalanine tRNA by. 5309
**ster (biotinyl-p-nitrophenyl),** irreversible inhibition of biotin transport in yeast by. 1517
**ster (carotenoid glucoside),** of Sorangium compositum, analysis of. 822
**ster (ethylene glycol fatty acid),** from Candida tropicalis 'K' grown on n-heptadecane, separation of. 4172
**ster (fatty acid methyl and ethyl),** in Tetrahymena pyriformis. 5411
**ster (inorganic acid),** mutagenic effects of in Aspergillus nidulans. 4279
**ster (substituted carbanilic acid),** synthesis and antifungal activity of. 3502
**ster (trimethylsilyl ether methyl),** of long chain hydroxy acids from Nocardia corallina, fractionation and analysis of. 290
**terase,**
  from Fusarium graminearum isolates. 177
  production by Streptomyces rochei var. volubilis var. n. 598
  from Streptomyces from Maine potatoes, electrophoretic patterns of. 215
  of syngens 1 and 8 in Paramecium aurelia, genetic determination of. 4395
**Esterase (cephalosporin C acetyl),** detection of in carbamate cephalosporin antibiotic-producing Streptomyces calvuligerus. 4829
**Esterase (extracellular acid phosphomono),** of Aspergillus clavatus. 6601
**Esterase (microbial),** detection of with UV fluorescence. 1572
**Esterase (phenol carboxylic acid acyl),** from Aspergillus flavus, purification and properties of. 1985
**Esterase activity,** of Aspergillus oryzae alkaline protease. 5348
**Esterase polymorphism,** of Saccharomyces cerevisiae, genetics of. 6197
**Esterase synthesis,** in Aspergillus niger. 6604
**Esterification (cell-free enzymic),** of 5-carboxymethyluridine residues in bulk tRNA. 4079
**Estuarine diatoms (attached),** laboratory studies of assemblages of. 7350
**Estuarine environment (Caribbean),** plankton studies in. 5907
**Estuarine system (shallow unstratified),** in North Carolina, phytoplankton production and distribution of nutrients in. 2534
**Estuary (polluted),** benthic algae in. 7020
**Estuary (Somme),** biological study of. 6383
**Estuary (subtropical),** phytoplankton kinetics in. 3118
**Estuary (Waquoit Bay-Eel Pond),** study of the marine resources of. 7149
**Ethanol,**
  adaptive biosynthesis of thiazole and by-passing of the thiazole requirement in Exobasidium by. 6037
  comparative action of acetate with on the oxidative degradation of glucose by baker's yeast. 2661
  decrease of glycogen and trehalose in yeast during starvation and during ethanol formation under the influence of. 6045
  effect on glucose uptake in hexokinase activity in Euglena gracilis. 374
  endogenous metabolism of Saccharomyces cerevisiae in relation to. 2563
  extracellular fatty acid production by Candida grown on. 825
  genetics of tolerance to in Saccharomyces. 1614
  inhibition of synchronous sclerotium formation in Sclerotium rolfsii by. 6678
  stimulation of growth and rhizomorph formation in Armillaria mellea by. 5889
  tolerance and effect of training in Saccharomyces cerevisiae. 1518
  transient activation of soil microorganisms by. 3474
**Ethanol insoluble fractions,** of Ulva lactuca, photosynthesis studies in. 3401

- **Ethanol metabolism,** of yeast, influence of culture conditions on. 5542
- **Ethanol respiring yeasts,** effect of irradiation on. 4281
- **Ether (fungal diaryl),** structure and synthesis of. 5447
- **Ethidium,**
  - effect of block-treatment regimen using on cattle trypanosomiasis. 7594
  - induction of paracrystalline inclusion in Neurospora crassa by. 3153
  - ultrastructural study of effect of on trypanosomes. 1556
- **Ethidium bromide,**
  - appearance of dyskinetoplastic forms of Trypanosoma gambiense provoked by in experimentally infected mice. 1074
  - conditions that prevent ρ-induction by. 1539
  - degenerative effects of on mitochondrial genetic information in a respiratory competent yeast. 4947
  - effect on growth and morphology of Tetrahymena pyriformis. 3479
  - modifications of the mitochondria and synthesis of mitochondrial DNA by Tetrahymena pyriformis after the action of. 7394
  - yeast mitochondrial DNase stimulated by. 6594
- **Ethionine,**
  - metabolism of in ethionine-sensitive and resistant cells of enteric yeast Candida slooffii. 5476
  - metabolism by Ochromonas danica. 342
  - metabolism by Prymnesium parvum. 217
  - resistance in Chlorella mutants. 323
- **Ethionine fatty liver,** prevention of development in pre-erythrocytic rodent malaria in. 5697
- **Ethionine-resistant mutant,** of Ochromonas danica, properties of. 4231
- **Ethiopia,**
  - immunologic characterization of barleys of. 5737
  - leishmaniasis in. 987
  - serial tests on fungus occurrence in native people of. 3600
- **Ethiopia (South-West),** human trypanosomiasis in. 2851
- **Ethirimol,** metabolism and mode of action of. 6130
- **Ethopabate,** susceptibility of broilers to coccidiosis following withdrawal of. 424
- **5-Ethoxy-3-trichloromethyl-1, 2, 4-thiadiazole,** disease control in bedding plants with. 324
- **Ethyl chain (lateral),** of stigmastanol and stigmast-22-en-3β-ol of Dictyostelium discoideum, biosynthesis of. 2020
- **Ethyl methanesulfonate,** modification of tolerance of oats to crown rust by mutation induced by. 1121
- **O-Ethyl S, S-diphenyl phosphorodithioate,** metabolism by mycelial cells of Pyricularia oryzae. 331
- **Ethylene,**
  - influence on bud necrosis of tulips. 6960
  - in sterilized soil, significance of in studies of interactions between microorganisms and plants. 3820
- **N, N'-Ethylene-diaminetetraacetic acid,** removal of ferrous ions by in microbiological assay of pyridoxine. 4912
- **Etirimol,** use of for seed treatments. 3071
- **Eubiosis,** of the intestinal flora, effect of yeast on and the meaning of dysbiosis in dermatose 1018
- **Eucalyptus,** shoot blight of caused by Ramularia. 6978
- **Eucalyptus regnans seedlings,** winter leaf spot disease of in relation to forest litter. 5743
- **Euchlaena mexicana,** Helminthosporium maydis on. 4589
- **Eugenia jambolana,** Phomopsis eugeniae causing disease on. 4595
- **Eukaryotes,**
  - characteristic metabolic patterns of. 1434
  - photosynthesis in. 1489
  - of Physarum polycephalum, model of control of cell division in. 5882
  - recombination and chromosome structure in. 1607
- **Euparen,**
  - control of Botrytis cinerea mycosis in strawberry cultivars with. 6945
  - control of Sclerotinia with. 6338
- **Euphorbiaceous plants,** rhizosphere fungal flora of. 2399
- **Europe,**
  - Cyphelium in. 600
  - damage caused by Scleroderris in plantations and nurseries in. 6919
  - distribution of hosts of Scleroderris lagerbergii in. 6918
  - Lycoperdon norvegicum with Boreo-Continental distribution in. 1953
- **Europe (Central),** ecology, bionomics and behaviour of Haemaphysalis punctata tick in. 1347
- **Europe (north),** post-glacial migration of rust fung to. 7184
- **European coasts,** life cycle of Bryopsis from different points along. 1264
- **Eustigmatophyceae,** as new algal class. 5
- **Eutrophication,** 5274
  - application of the method of factorial analysis to the correspondence between classification of lakes as a function of their degree of. 5906
  - in eastern alpine lakes, different forms of. 119
  - effect or carbon on algal growth and relationship to. 6745
  - effects of on the salmonid communities of Lake Huron. 6528
  - effects of on salmonid communities in oligo-

**trophication, contd.,**
  trophic lakes. 6529
  effect on silica in Lake Michigan. 545
  of freshwater lakes, carbon, nitrogen and phosphorus in relation to. 3566
  implications of interactions between naturally occurring particulates and methane oxidizing bacteria. 6515
  implications of interaction between naturally occurring particulates and methane oxidizing bacteria. 7163
  of Lake 227, Northwestern Ontario, by addition of phosphate and nitrate. 4724
  of lake water microcosms. 2417
  in lakes, evaluation of certain indices in. 7171
  significance to of spatial differences in nutrients and diatoms in Lake Michigan. 6520
  of subtropical estuary, phytoplankton kinetics in. 3118
  summer maxima of algae and. 7180
  of waters of Switzerland, contribution of agriculture to. 7179
**trophication problem.** 6527
**vaporation,** of yeast for human food, effect of. 6402
**vaporation losses,** effect of on experimental continuous culture results. 5527
**vernic acid,** in Evernia prunastri, spectrophotometric measurement of. 2053
**volution,** hybridization between Puccinias in relation to. 3589
**volution (co-),** of the rust fungi and their hosts. 2347
**volution (micro),** in Auricularia polytricha. 6547
**xconjugants,** of Blepharisma seschachari, effect of hydroxyurea on the development of macronuclear anlagen in. 3477
**xcoriosis,**
  of vine. 3788
  of the vine and its treatment. 6975
**xcretions,**
  of algae in freshwater or thermal water, auto- and heteroantagonism and other effects of. 7161
  of plankton, potential sources of error in measurement of low rates of. 4322
**xcretion (organic),** by Dunaliella tertiolecta. 4797
**xcystment,**
  of Acanthamoeba castellanii, scanning electron microscopic study of. 7130
  of Didinium nasutum, electron microscope study of. 5260
  in free-living amoebae, factors inducing. 3559
  in Opalina ranarum. 7139
  of poultry coccidia, electron microscope study of. 604
**cystment process,** of Isospora marquardti from Colorado pika, structure of the oocyst and 5900
**ocytosis of latex beads,** during encystment of Acanthamoeba. 1927
**Exopeptidase,** effect on yeast enolase of digestion by. 736
**Exposure-frame,** collection of periphyton in lentic habitats with. 3521
**Extracellular substances,**
  from Chlorococcum ellipsoideum and Chlamydomonas globosa. 5940
  production of by Phaeocystis poucheti. 3200
**Extracts (cell-free),** of Neocosmospora vasinfecta, bicarbonate fixation by. 163
**Extracts (natural),** promotion of stipe elongation in isolated Flammulina velutipes fruit bodies by. 5561
**Eye,**
  case of histoplasmosis of. 429
  histoplasmosis of. 5626, 5627
  coccidioidomycosis of, case report and review. 457
  experimental studies on toxoplasmosis of. 1090
  manifestation of rhinosporidosis in. 1013
  mucormycosis of. 6243
  of the rabbit, effects of toxoplasma gondii toxin on. 4529
  Rhinosporidiosis of. 5017
  Toxoplasma gondii infection of, effects of interferon inducer on. 1092
**Eye (compound),** of Creophilus erythrophalus, intracellular microsporidian parasite from. 3725
**Eyespot disease,**
  effect of benomyl and the growth regulator CCC on. 2352
  in wheat, elaboration of practicable method for the control of with systemic fungicides. 7653
**Eyespot disease (Cercosporella herpotichoides),** effect of temperature on in wheat seedlings. 508
**Extrachromosomal elements,** inheritance of in yeast. 401

# F

**F-actin (plasmodium),** cross reaction with muscle native tropomyosin. 4133
**Factors (internal and external),** control of development in Griffithsia pacifica by. 6494
**Factorial analysis,** application of the method of in the correspondence between classification of lakes as a function of their degree of eutrophy. 5906
**Faecal contagiousness,** coccidian form of Toxoplasma gondii and. 7501

- **Faeces,**
  - of artificially infected sheep, unsuccessful attempt to transmit toxoplasmosis to mice from. 5066
  - of the cat, Sarcosporidia tenella sporocyst in. 3986
  - of cat, detection of Toxoplasma and Isospora in. 7090
  - of cats, isolation of Toxoplasma gondii from. 136
  - of human, Dientamoeba fragilis in. 2256
  - of the lamb, variation of the number of oocysts of coccidia in. 5059
  - of lizards, insect flagellates from. 2951
- **Fairy rings (mysterious).** 4735
- **Familial occurrence,** of Microspora canis. 7551
- **Farmer's lung,** see Aspergillosis.
- **Farnesol,** as the major metabolite of mevalonate in Phytophthora cactorum. 6051
- **Fat,** see Lipid.
- **Fatal complications,** of narcotism, infections as. 6281
- **Fatal infections,** in childhood leukaemia. 6255
- **Fatty acid,**
  - of Acetabularia mediterranea, effect of illumination on. 2019
  - of Actinomyces levoris, incorporation of radioactive precursors into. 243
  - of Blakeslea trispora, composition of phospholipids on n-alkanes. 231
  - of Candida, extracellular production on ethanol. 825
  - in Candida utilis, effect of temperature variation on composition of. 241
  - of Cladosporium resinae, composition during growth on glucose and hydrocarbons. 827
  - composition of in the cell walls of coccoid microorganisms isolated from lithophilous lichens. 6557
  - effect on growth of Candida tropicalis in the presence of alkanes. 4857
  - of Entomophthoraceae, composition of. 232
  - of Euglena gracilis, effects of changes in the major carbon source on. 5556
  - as stimulants of rhizomorph production in Armillaria mellea. 4252
  - of thermophilic and mesophilic fungi, polar and neutral lipid composition of. 1474
  - in yeast cells, membrane stability and nature of. 3372
- **Fatty acid (component),** of some marine algal lipids. 4167
- **Fatty acid (α-hydroxy),** in sphingolipids of Tetrahymena. 5412
- **Fatty acid (long-chain),** in baker's yeast cell envelope fractions, occurrence of. 1466
- **Fatty acid (non-esterified),** contribution to the inhibitory activity in malaria. 487
- **Fatty acid (odd-numbered),** in Ochromonas danica, metabolism of. 4165
- **Fatty acid (rumen volatile),** in vivo effects of antiprotozoal compounds on. 923
- **Fatty acid (unsaturated),** effect of on development of respiration and protein synthesis in an unsaturated fatty acid mutant of Saccharomyces cerevisiae. 5575
- **Fatty acid biosynthesis,**
  - in Euglena gracilis, control of ammonia, light and DCMU. 4166
  - in yeast, effect of cerulenin on. 7411
- **Fatty acid composition,**
  - of blue-green algae. 3369
  - of Candida utilis, effect of temperature variation on. 1526
  - of corn oil, effect of planting date and southern corn leaf blight on. 3781
  - of the eastern subterranean termite, effect of wood decayed by Lenzites trabea on. 6408
  - and physiological properties of some filamentous blue-green algae. 5399
  - of yeast, relationship to petite mutations. 6053
- **Fatty acid constituents,** of the surface and wall lipids of some fungal spores. 6629
- **Fatty acid deficiency (essential),** effect of on coccidiosis in the domestic fowl. 4517
- **Fatty acid distribution,** in triglycerides of yeasts grown on glucose or n-alkanes. 6628
- **Fatty acid elongation,** in Saccharomyces cerevisiae deficient in fatty acid synthetase. 2021
- **Fatty acid mutants (saturated),** in yeast. 1472
- **Fatty acid oxidation,** in Crithidia fasciculata. 5409
- **Fatty acid spectrum,** of Candida after culture on n-alkanes. 5408
- **Feathers (poultry),** colonization by Monodictys levis and Trichophyton ajelloi. 1599
- **Fecundity,** of Aedes aegypti, differential effects of Plasmodium gallinaceum on. 3742
- **Feed,** of poultry, toxigenic fungi from. 7009
- **Feed (aquaculture),** algal culture as. 6399
- **Feeding,**
  - of Daphnia pulex with blue-green algae. 4631
  - by green hydra, benefit to symbiotic zoochlorellae from. 5554
  - in Lesquereusia spiralis. 56
  - of Loxodes magnus on Scenedesmus in a eutrophic pond. 4368
  - of Stomoxys in relation to non-cyclical transmission of trypanosomes. 6781
  - of zooplankton in situ method for measurement of. 4369
- **Feeding (filtrational and osmotic),** in corals. 4632
- **Feeding (intermittent),** in penicillin biosynthesis, new method of. 6175
- **Feeding rates,** of forest soil invertebrate populations. 3097
- **Female strain,** of Oedogonium cardiacum, cytological studies in. 1840
- **Femoral artery,** mycotic aneurisms of. 1030
- **Fence posts (wooden),** fungal succession in. 539
- **Fentin acetate,** effect of on microflora of potato

**ntin acetate, contd.,**
  leaves. 7621
**nuron,** effect on Chlorella pyrenoidosa growth. 5496
**rmentation,**
  by brewing yeast, effects of wort composition on the rate and extent of. 6401
  changes in the microflora of wild rice during curing by. 7707
  of flour, factors involved in. 5155
  of maltose and α-methylglucoside in Saccharomyces carlsbergensis, genes for. 4378
  of minor wort carbohydrates by brewing yeasts. 2145
  of Saccharomyces cerevisiae, study of sugar consumption during. 4800
  of wheat dough sugars by pressed and liquid yeast. 1456
  of wort by brewery yeasts, production of yeast mass during. 6400
  of yeasts, osmotic pressure as limiting factor for. 1278
**rmentation (alcoholic),**
  behaviour of sweet stalks of sorgo and corn juice in. 2405
  of molasses, effect of adding nitrogen and vitamins to. 2404
**rmentation (ergot alkaloid),** cell pool tryptophan phases in. 1479
**rmentation (low temperature),** utilization of n-paraffin by marine yeast for. 2703
**rmentation (molasses),** in fodder yeast production, problems of. 5538
**rmentation (solid state).** 6728
**rmentation(tapé).** 5776
**rmentation (tower continuous),** characterization of flocculent yeasts by. 6726
**rmentation tests (anaerobic),** quick procedure in the identification of yeasts. 5528
**rn (Florida Ruffle),** Rhizoctonia blight of.520
**rredoxin,**
  effect on activity of ribulosediphosphate and phosphoenolpyruvate, carboxylases in Scenedesmus obliquus, maize and peas. 4238
  stable and easily extractable plant-type of from Spirulina maxima. 6027
**rredoxin (crystalline),**
  of Euglena, purification and chemical properties of. 790
  from Nostoc sp. 1429
**rredoxin (isotope hybrid algal),** extraction and purification of. 4129
**rrous ions,** removal of by N, N'-EDTA in microbiological assay of pyridoxine. 4912
**rtex 85,** efficacy of in controlling collar rot of groundnut. 6354
**rtilization,**
  of Alaria from North America. 3135
  in Coelotropha durchoni, light and electron microscope study of. 638
  evolution of Rhizopoda Testacea in forest soils under the influence of. 7687
  in Parahaemoproteus. 5902
  in Ulva mutabilis, ultrastructure of. 1908
  of the vine, effects of on the development of Botrytis cinerea. 7651
  in Volvox carteri, effect of protein and nucleic acid synthesis inhibitors on. 2742
  in Volvox carteri, effects of some protein and nucleic acid synthesis inhibitors on. 3445
**Fertilization (forest),** relation of to disease incidence. 6367
**Fertilization (selective),** in Neurospora crassa, genes influencing. 6189
**Fertilizer,**
  effect on activity of microorganisms in jack pine humus. 1805
  effect of application of on photosynthetic $^{14}C$ incorporation in marine algae. 3444
  effect of on phytoplankton development in fry ponds. 6169
  effect on plant resistance to pathogenic fungi. 311
  mycotrophy of meadow plants in relation to the use of. 3281
**Fertilizer (chemical),** effect on the rhizosphere mycoflora of Oryzasativa. 1804
**Fertilizer (inorganic),**
  degradative biocenosis of. 6420
  effect on natural beds of Ulva lactuca. 373
**Fertilizer (mineral),**
  effect on the microflora of some soil types in forest plantations. 3099
  effect of on root microflora of maize growing in forest-steppe zone of Krasnoyarsk district. 3814
**Fertilizer (NPK),** macro-fungi of an apple orchard in relation to. 5758
**Fertilizer treatment,** in organic forest soils, microbiological response to. 7685
**Fertility,** restoration of to pyr-3 inter-allelic crosses in Neurospora. 1606
**Fescue (tall),** susceptibility of to crown rust. 4556
**Festuca arundinacea,** susceptibility of to crown rust. 4556
**Fever,**
  confusion and exanthema, patient with. 4448
  nitroblue tetrazolium test in cases of illness with. 4917
  of unknown aetiology. 1686
**Fibre-optic system,** in malarial immunofluoroescence tests, use of. 2141
**Fibril biosynthesis (micro-),** in Oocystis, plasmalemma structure in relation to. 5185
**Fibril systems (micro-),** in the cortex of Paramecium caudatum, fine structure of. 1906
**Fibrils,** of small Amoebae, rotations of. 3121
**Fibrils (cellulose micro-),** of Valonia cell walls, substructure of. 1207

**Fibrils (motile protoplasmic),** in Characeae cells. 3868
**Fibrils (wall),** in Gilbertella persicaria germinating sporangiospores. 2452
**Fibrin,** from Aspergillus ochraceus, protease active against. 173
**Fibrin-degradation products,** in cerebral malaria. 2261
**Fibrinogenic/fibrinolytic activity,** of Entamoeba histolytica on human plasma in vitro. 3342
**Fibrinolysis,**
  caused by proteolytic enzymes of Cladosporium, Fusarium and Alternaria. 761
  production of proteases in Nocardia causing. 779
**Fibrinolytic activity,** of Proteolytic enzymes from Penicillium lilacinum, studies on. 6607
**Fibrinolytic activity (high),** in aortic intima, primary pulmonary aspergillosis with. 4998
**Fibroblasts (SV40 transformed human faetal lung),** formation of anucleate and multinucleate cells in by cytochalasin B. 7315
**Fibrosis (interstitial pulmonary),** allergy to precipitins due to Aspergillus fumigatus with. 3630
**Fibrous arrangements (twisted),** in biological materials and cholesteric mesophases. 7717
**Ficus elastica,** experimental studies on leaf anthracnose of. 5746
**Field (agricultural),** in Allahabad, ecological study of soil fungi of. 7001
**Field (milled),** microflora of peat from. 5774
**Field evaluation,** for tomato early blight resistance. 2349
**Field inoculations,** multiplication of inoculum of Alternaria triticina for. 5532
**Field resistance,** screening potatoes for. 5739
**Fig (fresh),** observations on rotting of after harvest. 7016
**Fiji,** susceptibility of banana to fungus leaf diseases in. 6915
**Filament,**
  of Leptoporus lignosus, determinants in the aggregation of into palmettes. 5251
  of Spirogyra, diurnal movement of. 1909
**Filament (lacking heterocysts),** in Anabaena flos-aquae, nitrogenase in. 150
**Filament (polar),** of Nosema, structure of. 3187
**Filament bundles,** of Ascobolus apothecial cells, effects of fixatives on. 4325
**Filament formation,** by purified Physarum myosin. 7267
**Filament-microtubule-membrane (micro-),** relationships between in the ciliate pellicle. 1259
**Filariae (micro),** among the population of a pile-built lake village of Ganvie. 4415
**Filariasis (human),** evaluation of the haematocrit centrifuge and other techniques for the field diagnosis of. 1579
**Filariasis survey,** among indigenous tribes of Palawan. 6783
**Filtering (coherent optical spatial),** of diatoms in water pollution monitoring. 4650
**Filters,** efficiency comparison of for use in biological oceanography. 3524
**Filters (membrane and glass-fibre),** quantitative comparison of pigment extraction by. 4320
**Filtrate (fungal),** pronounced inhibitory action against Semliki Forest virus in mice with. 4180
**Filtration,** phosphate and turbidity control by. 1816
**Filtration efficiency,** microscopic water quality and. 1819
**Finland,** toxicogenic Stachybotrys chartarum in. 3390
**Finnmark,** gasteromycetes of. 1323
**Fir (Douglas),** Poria weirii-inhibiting and other phenolic compounds in the roots of. 2751
**Fir seedling (Douglas),** planted on burned sites in Washington, Rhizina root rot of. 6916
**Fire,** differences in decay rate after, between oaks in North Carolina and Maine. 7702
**Fish,**
  of the Bhavanisagar reservoir, ciliate parasites of. 6322
  control of Ceratomyxa shasta infection in by treating hatchery water. 5679
  distribution of Basidiobolus ranarum in. 1952
  of the Kola Peninsula, new and little-known Microsporida from. 1349
  mechanisms for synthesis of organic mercury found in. 4289
  mixtures of malachite green and formalin for controlling Ichthyophthirius and other protozoan parasites of. 5709
  simplified procedure for detecting Myxosoma cerebralis spores in. 2140
**Fish (Caspian Sea),** trypanosomes from the blood of. 1341
**Fish (freshwater),**
  development of fungus infection in. 3690
  parasitic Blastodiniales on. 3287
**Fish (North Atlantic),** Entamoeba nezumia and other parasites from. 3718
**Fish coccidia,** spore envelopes in. 3936
**Fish eggs,** Leucothrix mucor infestation of. 4014
**Fish farms,** protozoan disease of the fry in. 7616
**Fishery (coastal pelagic),** relationship to plankton of Calicut inshore waters. 3261
**Fishery (Hilsa),** in Bengal, significance of the occurrence of blooms of Hemidiscus hardmannianus in relation to. 3996
**Fishpond,** ion transport studies on phytoplankton of. 655
**Fistula formation,** following amoebic dysentery. 2258
**Fission (binary),** in Paramecium multimicronucleatum, electron microscopy of nuclear event during. 3988

**istula (cholecystocolonic),** after ameboma of the ascending colon. 5031

**ixation,** effect of on the wave propagation of the protozoan axostyle. 7379

**ixatives,** effect on lattice bodies and filament bundles in apothecial cells of Ascobolus. 4325

**lagella,**
  - of Allomyces, amino acid immobilization of. 881
  - of Euglena, theory of piezoelectric activity and ion-movements in relation to. 5807
  - existence of breaking point in. 2423
  - helical movement of in microorganisms. 555
  - mechanochemical model of activity of. 2425
  - of Ochromonas, description of tubular mastigonemes of. 51
  - of Oxyrrhis marina, fine structure of. 3878
  - of Strigomonas oncopelti, study of ATPase properties of proteins separated from. 4125
  - of temporary dikaryons of Chlamydomonas reinhardtii. 1603
  - in Vacuolaria virescens, structure and origin of hairs of. 6475
  - in Volvox aureus colonies, activity during light stimulation. 298

**lagella mutant,** of Chlamydomonas reinhardtii. 6754, 6755

**lagellar waves (3 dimensional),** propulsion of micro organisms by. 7035

**lagellar wave-forms (hypothetical),** analysis of. 7036

**lagellated forms (non-),** of Trypanosoma gambiense, existence of in the choroid plexus tissues of experimentally infected mice. 4511

**lagellates (Naegleria),** variable periodicity in the rhizoplast of. 3931

**lagellates (parasitic intestinal),** distribution of in mice exposed to X-irradiation. 5668

**lagellation (ex),** in Parahaemoproteus. 5902

**ilament,** in Ascomycetes, role of mitosis during. 1916

**lagyl,** treatment of trichomoniasis in the female with. 452

**lashes (repetitive short),** photosynthetic unit in Chlorella measured by. 1485

**lavin prosthetic group,** of $\beta$-cyclopiazonate oxidocyclase from Penicillium cyclopium. 4119

**lavine,** in Eremothecium ashbyii, interaction of biosynthesis of with sterols. 704

**lavine binding (pro-),** to yeast rRNA and ribosomes. 3302

**lavinogenesis,**
  - of Candida guilliermondii, role of purine biosynthesis de novo in. 5381
  - mutants of Candida guilliermondii with blocked purine catabolism and. 1630

**lavocoumarins,** produced by Aspergillus, effects of on ultrastructure of plant cells. 3771

**Flavodoxin,** from Chlorella, characterization of. 789

**Flavones (fungistatic),** in the leaves of citrus resistant and susceptible to Deuterophoma tracheiphila. 1135

**Flavonoids,**
  - microbial transformation of. 1461
  - yeasts of the Matador soils of Saskatchewan and their ability to use. 1167

**Flavoskyrin,** from Penicillium islandicum, structure of. 4223

**Flax,**
  - characterization of disease resistance responses in certain gene-for-gene interactions with Melampsora lini. 6930
  - nutritional studies with axenic cultures of rust of. 4936
  - ultrastructural changes in rust-infected tissues of. 7635

**Flax (rust-infected),** ultrastructural specialization at the host-pathogen interface in. 4554

**Flax cotyledons,** histology and infection in sporulation by saprophytic cultures of Melampsora lini inoculated into. 4553

**Flax rust fungus,** pathogenicity and developmental differences of 3 saprophytically growing isolates of. 1921

**Flax rust uredospores,** rRNA synthesis and ribosome formation during germination of. 4076

**Flea,** developmental sites of Trypanosoma in. 7129

**Flight (automatic station Zond-8),** effect on yeast and Hydrogenomonas cultures. 2071

**Flight conditions,** effect on genetic stability of diploid yeasts. 2067

**Flocculation,**
  - of algae with synthetic polymeric flocculants. 4904
  - phosphate and turbidity control by. 1816
  - in Schizosaccharomyces pombe. 89

**Flocculent yeast,** characterization of by tower continuous fermentation. 6726

**Floor-pen experiments,** anticoccidial activity of monensin in. 6884

**Flora (French),** of parasitic Laboulbeniales plea on behalf of. 6541

**Flotation,**
  - of excised root and fungal cultures on liquid media. 6727
  - of Scenedesmus. 7429

**Flour,** factors involved in the fermentation of. 5155

**Flow systems (continuous),** for inducing and observing asexual spore formation in Aphanomyces euteiches. 4909

**Flower blast,** of statice in south Florida. 3024

**Flower monilia,** of stone fruit and treatment with new organic fungicides. 3783

- **Fluometuron,** effect on growth and sclerotia production of Sclerotium rolfsii. 915
- **Fluorene derivatives,** effect of on Fusarium and Verticillium wilt of tomato. 2358
- **N-2-Fluorenylacetamide,** loss of feedback control of cholesterol synthesis in precancerous rat liver during treatment with. 7309
- **Fluorescence,**
  - in Chlorella, effect of cofactors of electron cyclic flow on induction of. 152
  - of chlorophyll in brown algae and diatoms. 1828
  - of chloroplasts and algae, effect of factors from the leaves of Ricinus communis on. 879
  - use of to detect cell walls of Geotrichum lactis in protoplast preparation. 7449
  - in Porphyridium cruentum, induction of. 1508
- **Fluorescence (antinuclear antibody),** in leucocytes and hepatocytes, patterns of. 7512
- **Fluorescence (chlorophyll a),** in algae, pH control of. 272
- **Fluorescence (fibre),** geographical distribution of Aspergillus flavus boll rot in experimental plots across the USA cotton belt as revealed by. 5091
- **Fluorescence (immuno),** in tracking and epidemiology of human malaria. 2871
- **Fluorescence (NAD-H$_2$),** in Candida guilliermondii, changes in the intensity of during its transition from anaerobic to aerobic state. 6671
- **Fluorescence changes (light-induced),** in Chlorella. 6083
- **Fluorescence induction (chlorophyll),** in Scenedesmus at oxygen deficiency. 4198
- **Fluorescence intensity and induction,** of photosynthetic material at 77°K, restorative effect of warming on. 5460
- **Fluorescence kinetics,** of chlorophyll in pigment mutants of Chlamydomonas reinhardtii. 6181
- **Fluorescent antibody test,**
  - assay of fungal mycelium in grains of barley by. 943
  - for Babesia. 4429
  - combined growth of Saccharomyces and yeast-like fungi studied by. 937
  - in serodiagnosis of amoebiasis. 4979
  - serological diagnosis of hepatic amoebiasis by. 1038
  - false-positive anti-Toxoplasma patients with antinuclear antibodies showing. 955
- **Fluorescent antibody test (indirect),**
  - application in experimental East Coast fever. 491
  - for detecting antibodies to cysts of Pneumocystis carinii in human sera, preliminary report of. 7522
  - for experimental East Coast fever. 6239
  - preparation of multi-species antigen of human malaria for use in. 7515
  - and quantitative agar-gel immunodiffusion tests for the serological diagnosis of paracoccidioidomycosis. 7505
  - serological diagnosis of hepatic amoebiasis by. 1711
- **Fluorescent antibody test (quantitative),** for
  - analysis of the antigenic relationships among Trichomonas, Histomonas, Dientamoeba and Entamoeba. 6796
  - of effects of prolonged cultivation on Histomona meleagridis, immunologic analysis by. 6236
- **Fluorescent compounds,** in fermented foods, studies on. 7694
- **Fluoride ions,** effect of on Chlorella respiration. 5457
- **Fluoroacetate sensitive Candida lipolytica mutants** production of citric acid from n-paraffins by 5441
- **5-Fluorocytosine,**
  - Candida albicans resistance to. 6818
  - generalized moniliasis treated with. 5625
  - in human candidiasis. 441
  - as oral antifungal compound. 6823
  - pharmacological studies with. 6694
  - potentiation of as antifungal antibiotic by amphotericin B. 4292
  - response of cryptococcal prostatitis in a patien with sarcoidosis. 6825
  - study of susceptibility of yeast to. 443
  - synergistic action of with amphotericin B against yeast-like organisms. 2102
  - treatment of Candida infections of the urinary tract with. 7535
  - in vitro sensitivity of Torulopsis glabrata to. 338
- **5-Fluorodeoxyuridine,** effect on dimorphism in Verticillium albo-atrum. 2760
- **p-Fluorophenylalanine-induced mitotic haploidization,** in Ustilago violacea. 2180
- **p-Fluorophenylalanine resistant mutants,**
  - of Aspergillus nidulans, studies with. 4951
  - in Neurospora crassa, new class of. 6759
- **5-Fluorouracil,** induction of mutation in Ustilago maydis by. 320
- **Fluorouracil,** reduced levels of 5,6-dihydrouridine in Saccharomyces cerevisiae tRNA containing. 707
- **Fluorouracil treatment (topical),** of senile keratosis and mycosis fungoides. 5019
- **Fly,** systematic and ecological studies on spp of which attack Agaricales in Hungary. 6546
- **Fly (little house),** laboratory tests with entomogenous bacteria and Beauveria bassiana against. 6861
- **Fly (tsetse),** fungal pathogens of. 5649
- **Fodder yeast,**
  - cultivated with different carbon and nitrogen sources, content and digestibility of protei in. 4363
  - effect of the concentration levels of phosphoru nutrition on the composition of. 7469

**dder yeast, contd.,**
in recirculated worts, semicontinuous cultivation of. 5537
use of in broiler feeding. 5787
**dder yeast production,** problems of molasses fermentation in. 5538
**ecal pellets,** role in sedimentation of pelagic diatoms. 1808
**etology.** 5648
**etus (bovine),** case of intra-uterine infection with Babesiella berbera in. 6883
**gg medium,** for growing Chlorella pyrenoidosa. 346
**ate,**
in the biosynthesis of threonine in Crithidia fasciculata. 4145
wheat stem rust uredosporeling content of. 203
**ate antagonists,** antimalarial and antimetabolite effects of. 7423
**ic acid,** as second chemotactic substance in Dictyostelium discoideum. 5371
**ic inhibitors (combined),** peripheral leucocyte counts during long-term administration of. 4487
**k culture,** of Zurich, common plant names and botanical information from. 6472
**low-up (long-term),** in disseminated histoplasmosis. 4996
**od,**
aflatoxins in. 5156
culture medium for counting osmophile fungi in. 3543
fungi in. 7697
protective measures in work with mycotoxins in relation to. 6407
report on analytical mycology of. 4920
ropical South-east Asia, toxigenic moulds in. 4438
**d (dissolved),** interaction of in food uptake by Tetrahymena pyriformis. 3577
**d (human),** concentration and drying of yeast for. 6402
**d (market),** of Thailand and Hong Kong, aflatoxins in. 4439
**d additives,** microbial production of. 6405
**d chain,** sodium 22 in. 7034
**d chain (glucose-Azotobacter agile-Tetrahymena pyriformis),** use of $^{14}$C for determining the efficiency of energy transfer in. 383
**d fermentation (oriental),** antibacterial activity produced by moulds, used in. 5413
**d particles,** propulsion of inside a large feeding organelle in Phascolodon vorticella. 5863
**d poisoning bacteria,** inoculated into Kombu extract, growth of. 3822
**d preference,** of Stentor coeruleus, determination of. 4937
**d preservation (antimicrobial),** ecological essentials of. 7011
**d source,** algae and lithotrophic bacteria as. 6397
**Food source (new),** triticale research in Mexico in relation to. 6346
**Food supplement,** effect of complex yeast preparation as on the growth of Ehrlich's ascites tumour in mice. 6406
**Food uptake,** and indigestible particles, relation to metabolism of Tetrahymena pyriformis. 3578
**Food vehicle,** for yeast protein. 7695
**Foot,** dermatomycoses caused by Trichophyton rubrum. 409
**Foot (madura),** Candida tropicalis causing. 6256
**Foot dermatophytes,** in some population groups and people with arterial disease. 3599
**Foot fungi,**
shoe disinfection for the destruction of with peracetic acid. 4303
in shoes, effect of UV irradiation on. 4280
**Foot rot,**
of citrus trees. 5073
of wheat, evaluation of seed-dressing fungicides against. 2366
**Foot rot (Fusarium),** of wheat and peas as influenced by soil applications of anhydrous ammonia and ammonia potassium azide solutions. 4586
**Foot rot (Phytophthora),** of black pepper in Brazil and Puerto Rico. 4540
**Forage spp,** plant disease incidence on as affected by north and south facing slopes. 6923
**Forage (mouldy),** contributions concerning the determination of toxicity of. 4636
**Forage crops,** in Central and North Alberta, losses from foliage diseases of. 2383
**Forest (coniferous),** of the Mexican Basin, microflora of. 6387
**Forest (native),** invasion of by Phytophthora cinnamomi. 2979
**Forest entomological studies,** in Iraq. 6341
**Forest environment,** role of Alnus in improvement of. 5730
**Forest fertilization,** relation to disease incidence. 6367
**Forest litter,** winter leaf spot disease of seedlings of Eucalyptus regnans in relation to. 5743
**Forest nurseries,** in Czechoslovakia, integrated pest control in. 7678
**Forest soil,**
of central South Carolina, thermophilic fungi of. 5147
of eastern Canada, cellular slime moulds in. 7681
evolution of Rhizopoda Testacea in, under the influence of fertilization. 7687
**Forest soil (organic),** microbiological response to fertilizer treatments in. 7685
**Forest soil layers,** growth of fungal mycelium in. 3818

**Forest-steppe zone,** of Krasnoyarsk district, effect of mineral fertilizers on root microflora of maize growing in. 3814

**Forest-tundra,** of the Transural region, diurnal dynamics of the assimilation of $CO_2$ in certain lichens of. 6072

**Formalin,**
  effect on Egyptian soil fungi. 2396
  mixture of with malachite green for controlling Ichthyophthirius and other protozoan parasites of fish. 5709

**Formol-cupric chloride method,** for the examination of protozoan cysts and helminth ova. 4930

**Fossil (nonpetrified alga),** from phosphate mine site in North Carolina. 650

**Fossil algae,** occurrence of from Syringothyris limestone in India. 5273

**Fossil diatoms (sub),** from North Carolina. 5267

**Fossil Pyrophacus,** study of. 2441

**Fowl pox,** diagnostic differentiation from stachybotryotoxicosis in chickens. 468

**Fox (Arctic),** nosematosis in. 1747

**Fox farm (blue),** encephalitis infectiosa vulpis in. 1750

**Fractionation (cell),** strategy of. 6723

**Fractionation (saline),** of mRNA from dividing Euglena gracilis cells. 4753

**Fractionation (subcellular),**
  of aerobically grown glucose-derepressed Saccharomyces carlsbergensis. 3538
  of particles containing acid hydrolases from Saccharomyces carlsbergensis. 3322

**France,**
  286 cases of human digestive coccidiosis diagnosed in. 3675
  case of intra-pulmonary toruloma in. 1688, 2233
  ecology, growth and regeneration capacity of alginic acid in Laminaria digitata on the Channel coast of. 5272
  Fusarium wilt of tomato in. 6957
  mildew of Cucurbitaceae due to Pseudoperonospora cubensis in. 7626
  qualitative and quantitative study of a population diatoms of the epilithic microphylobenthos in. 5761
  relationships between organic chalk of the macrobenthos and the amount of chalk in the sediment in. 7686

**France (Bordeaux),** yeasts associated with wine grapes of. 4032

**France (Jura),**
  Eclusia moutyi from. 4044
  foraminifera of the Dogger of. 4048
  Planiinvoluta carinata in the upper Aalenian of. 4049

**France (La Clape Massif),** lower Cretaceous of. 6562

**France (Lyon),** micromycetes in the atmosphere of in relation to mould allergy. 4039

**France (Marseille),** lichen vegetation of the islands and islets of. 3285

**France (Roscoff),** new algae spp from. 3888

**France (southern),** ecological observations on Foraminifera of brackish water at the mout of the Rhone in. 3289

**France (Strasbourg),** 286 cases of human digestiv coccidiosis diagnosed in. 3675

**France (Toulouse),** frequency of toxoplasma infestation of the dog in. 4990

**Fraxinus angustifolia,** Hypoxylon from. 6443

**Free-Wilson analysis,** of 2-phenylquinoline-4-carbinols. 2964

**Freeze-dried mushrooms,** effects of blanching chemical treatments and freezing methods o quality of. 2406

**Freeze-drying,** preservation of fungi by. 5545

**Freeze etched spores,** of Trichoderma viride. 1575

**Freeze-etching,**
  fine structure of cell wall and plasma membrar in Micrasterias denticulata. 3866
  fine structural study of Plasmodium gallinaceum by. 3941
  fine structure study of Trypanosoma congolens by. 5855
  hyphal structure in Fusarium oxysporum revealed by. 589
  of microorganisms for electron microscopy. 3535
  structural study of mitochondrial membranes. 19
  of Synechococcus lividus cells, study by. 6428

**Freeze-fracture,**
  structural study of mitochondrial membranes by. 19
  study of the triuret crystals of Amoeba proteus by. 2797

**Freeze-fracture planes,** of yeast membranes, localization of. 5542

**Freezing and drying rate,** related to the effect of UV radiation of Colpoda maupasi resting cysts under low temperatures. 6125

**Freezing parasitic protozoa,** theoretical and practical aspects of. 6741

**French pressure cell technique,** isolation of vaccine fraction of Plasmodium by. 4983

**Freshwater,** growth and succession of algal populations in. 7174

**Freshwater algae,** Fritsch collection of illustrations of. 7178

**Freshwater amebae,** membrane activity in. 7724

**Freshwater ciliates,** review of autecological and saprobiological date on. 1351

**Freshwater community,** biological models of. 59

**Freshwater fungi,** from Abaco Island, the Bahamas, study of. 3264

**Freshwater protozoans,** cosmopolitan distributio of. 5302

**Fritsch collection,** of illustrations of freshwater

**sch collection, contd.,**
  algae. 7178
**g,** larvae of, simple method for removal of protozoan parasites from. 1068
**nd,** of Petroglossum nicaeense, proliferations of. 5878
**nd (ripe fertile),** of Undaria pinnatifida f. distans, mucilages from. 4155
**nd element,** of Ceramiaceae, observations and experimental studies for the hierarchization of. 5873
**nd structures,** and growth in Laminaria. 5821
**st,**
  nfluence of on outbreak of Scleroderris lagerbergii. 6920
  eed of to kill rust pockets. 1771
**h flotation method,** selection of non-foaming mutants of sake yeast by. 972
**zen section (ultrathin),** of yeast cells. 6724
**-Fructofuranosidase,** from Claviceps purpurea. 7219
**uctofuranosidase,** of yeast cell wall, solubilization of. 4099
**tokinase (phospho),** of yeast, studies on substrate and pH-dependent inactivation and reactivation of. 6013
**tokinase (yeast phospho),** physical parameters, molecular weight and subunit structure of. 4787
**tose,** in a Saccharomyces cerevisiae mutant, metabolism of. 225
**uctose,** utilization by fruit-rot fungi. 1598
**tose amino acids (synthetic),** effect on microorganisms. 1595
**tose metabolism,** in a phosphoglucoisomerase-less mutant of Saccharomyces cerevisiae. 1364
**tose peptide,** effect on microorganisms. 1595
**uctosidase (purified external),** from Saccharomyces cerevisiae, enzymic synthesis of fructosides using. 4775
**tosides,** enzymic synthesis of using purified external $\beta$-fructosidase from Saccharomyces cerevisiae. 4775
**t,**
  ffect of controlled atmosphere on growth of mould on. 1192
  Oregon, Pithomyces chartarum isolated from. 1956
  peach, penetration of by Monilinia fructicola. 3753
**t (dried),** microorganisms in. 4639
**t (stone),** flower and branch monilia of. 3783
**t bodies,**
  Agaricus bisporus, comparative study of metabolism of $^{14}$C-arginine in the stalk, sterile part of the cap and hymenium of. 6619
  Agaricus, intracellular appearance of mushroom virus in. 3079
  Agaricus bisporus, utilization of 1,2[$^{14}$C] oxalate by. 5437
  in the Basidiomycetes, biology of. 34
  in Doratomyces nanus, effect of temperature on production of. 2732
  of Dictyostelium discoideum, induction of production of in aggregateless mutants. 2823
  of Doratomyces corda, relation to vegetative mycelium. 636
  of Flammulina velutipes, promotion of stipe elongation in by carbohydrates, natural extracts and amino acids. 5561
  of Fomes annosus, neutral polysaccharides from. 4160
  of hymenomycetes, transpiration and water uptake in. 4854
  of Lepista nuda, experimental production of. 631
  in Lenzites saepiaria, studies on the formation of. 1280
  of Macrolepiiota procera in Czechoslovakia. 3159
  of polyporaceous fungi, dipterous insects as gall-formers on. 3851
  in Pterula, pure culture studies of production of. 6504
  of Schizophyllum commune, developmental regulation of amylase activity during formation of. 1406
  in Schizophyllum commune, production in synchronously Developing Cultures. 633
  in Trametes extenuatus, effect of visible light on development of. 7371
**Fruit bodies (monokaryotic),** in Coprinus macrorhizus, chemical and genetical control of induction of. 2068
**Fruit diseases,** of papaya in Hawaii, incidence, epidemiology and control of. 3772
**Fruit juices,** utilization of fungal enzymes in the liquefaction of soft fruits and extraction and clarification of. 4122
**Fruit-rot,**
  caused by Colletotrichum gloeosporioides in Nimbu. 510
  of Nimbu, studies on Colletotrichum gloeosporioides incitant of. 4574
  of Papaya. 3787
**Fruit-rot fungi,** utilization of oligosaccharides by. 1598
**Fruit tree,** stigmatic infections of. 6946
**Fruit tree (stone),** apoplexy of caused by Phytophthora. 6898
**Fruiting pathways (alternative),** in Phycomyces. 3962
**Fruiting rhythm,** of Coprinus congregatus, research on. 6501
**Frustule,**
  in centric diatoms, fine structure of. 7045
  of diatoms in Yugoslavia, ultrastructure of. 5181
  of Melosira varians, fine structure of. 3859

**Frustule, contd.,**
  of Navicula ostrearia, ultrastructure of. 1836
**Fry,**
  in fish farms, protozoan disease of 7616
  of herbivorous fishes, protozoan diseases of 1079
**Fuberidazol,** effect on the mycoflora of pasture plant leaves 5122
**Fucidin,** penetration of in the synovial cavity. 7548
**Fuclasin Ultra,**
  in vitro tests with for inhibition of Colletotrichum gloeosporioides 1550
  in vitro trials for suppression of Colletotrichum gloeosporioides with. 2756
**Fucoxylomannan,** from Fomes annosus fruit bodies, isolation and purification of 4160
**Fuel oil,** growth of Cladosporium resinae on. 6419
**Fulphalene-pyrimethamine mixtures,** potentiating action of against drug-resistant Plasmodium berghei. 3514
**Fulvenes,** derevation from illudin S. 238
**Fulvic acid,** liberation of $CO_2$ during the microbiological decomposition of 6077
**Fumagillin DCH,** nucleic acids in the intestine of Apis mellifica infected with Nosema apis and treated with. 3735
**Fumarase,** from bakers' yeast, release of in an industrial homogenizer. 3328
**Fumarase activity,** in yeasts, effect of carbon source in the medium on 1591
**Fumidil B (diet containing),** biology of European corn borers reared continuously on. 3738
**Fumigation,** of Phytophthora in sandy soil by methylbromide and bromide-chloropicrin. 3084
**Fumigation (annual soil),** effect of and pre-harvest vine burning on Verticillium wilt of potato. 7675
**FUN 52.133,** evaluation of for control of red core of strawberry 5070
**Function,** in relation to fungal morphogenesis. 1861
**Fundus uteri,** examination of in cases of Trichomonas and Monilia infestation. 4470
**Fungal pathogens,** induction of resistance to in plants. 527
**Fungi,** as food for Antarctic arthropods. 537
**Fungicide, see also specific chemicals.**
  consequences of withdrawing of. 4300
  control of disease of bedding plants by. 324
  effect of on Aspergillus niger in vitro. 6134
  effect on conidiophores and mycelium of some Hyphomycetes. 2069
  effect of on the growth of Rhizoctonia solani in vitro. 6138
  in vitro tests with for inhibition of Colletotrichum gloeosporioides. 1550
  in vitro trials for suppression of Colletotrichum gloeosporioides with. 2756
  pratical technique for determination of systemic activity of in vitro. 2121
  for preventing clubroot of cauliflower in loam and peat soils 3085
  relation to the polysaccharides of Cochliobolus miyabeanus cell walls. 222
  seed testing stations role in the testing of. 7005
  studies of in Cochliobolus miyabeanus. 1477
**Fungicide (eradicant),** tests of against Sclerotinia laxa on sour-cherry trees. 5726
**Fungicide (orchard),** effects on stored McIntosh apples. 5791
**Fungicide (organo-mercury),** effect on saprophytic fungi and litter decomposition 907
**Fungicide (seed and soil),** activity of for control of cotton seedling diseases. 3059
**Fungicide (systemic),**
  control of Ophiobolus graminis by. 5501
  control of powdery mildew of greenhouse strawberries with. 5088
  control of Sclerotium root rot of sugarbeet by. 337
  problems in the development of. 5133
  use in agriculture. 4898
**Fungicide (systemic and non-systemic),** field evaluation of for control of Sphaerotheca fuliginea on cucumber. 5086
**Fungicide (systemic and protectant),** prevention of apothecial formation in Gloeotinia temulenta by. 7408
**Fungicide evaluation,** methods of assessment of celery leaf spot in relation to. 944
**Fungicide tolerance (monogenic),** with Cochliobolus carbonum, epidemiology of. 4945
**Fungicidin,** microbial degradation of. 1554
**Fungistasis,** rhizosphere microflora of coriander with emphasis on. 3812
**Fungizone,** sensitivity of Eimeria tenella sporozoites maintained in tissue culture to. 7422
**Fungus ball,**
  as manifestation of coccidioidomycosis. 1669
  in the urinary bladder. 6814
**Fungus exsicati,** description of series from America. 595
**Funoran,** changes in the structure of by alkaline treatment. 7357
**Furan (naphtho 1,2-b),** from Roesleria pallida, derivative of. 2046
**Furanoid,** from Rhizoctonia solani. 817
**Furidazole,** use of for seed treatments. 3071
**Furylanilide (2,5-dimethyl-3-),** control of Ustilag striiformis and Urocystis agropyri in Poa pratensis by. 5089
**Fusariosis,** of asparagus. 3779
**Fuscidin,** penicillin resistant staphylococcal septicaemia successfully treated with. 7536
**Fuscin,** as inhibitor of respiration and oxidative phosphorylation in ox-neck muscle mitochrondria. 6066

**isicoccins,**
- further investigations of the toxicity of. 2031
- mechanism of action of. 6642
- potassium uptake of guard cells stimulated by. 4185

**isidic acid,** resistance of mitochondrial G factor from Neurospora crassa to. 326

**ision,** of Difflugiella pseudopods. 5223

## G

**+ C ratios (high),** algicidal nonfruiting myxobacteria with. 1362

**bon,**
- Cercospora in. 1955
- Uredinales of. 7185

**lactokinase,** in Saccharomyces cerevisiae, kinetics of induction and glucose effects on. 7224

**lactose,**
- NAD-dependent UDPGal-4-epimerase in Torulopsis candida by. 2633
- structural genes in Saccharomyces cerevisiae, genetic order of. 389

**-Galactose,** utilization by fruit-rot fungi. 1598

**lactose (UDP),** in Torulopsis candida, mechanism of fermentation of. 2634

**lactose-free milk diet,** development of. 3825

**and β-Galactosidases,** from Fusarium oxysporum f. sp. lycopersici. 6008

**Galactosidase,**
- from Saccharomyces fragilis, purification and properties of. 4779
- from Saccharomyces fragilis, purification, crystallization and properties of. 7233

**Galactosidase activity,** mutants in Saccharomyces lactis with control of. 4389

**Galactosidase biosynthesis,** in Saccharomyces fragilis, conditions of. 4780

**lacturonase (endopoly),**
- of Aspergillus niger, selective purification of by affinity chromatography on crosslinked pectin acid. 5345
- from Colletotrichum lindemuthianum, cell wall-degradation by. 4117
- from Corticium rolfsii, stability and activity of at low pH. 3332

**lacturonase (poly),**
- of Cercospora beticola, oxidative inactivation of. 4785
- in Cercosporella herpotrichoides, activity of. 176
- from Fusarium oxysporum f. sp. lycopersici, purification and partial characterization of. 4784
- relationship to pathogenesis of Cytospora in peach. 3339
- production of by Sclerotium rolfsii. 6010
- from Verticillium albo-atrum, characterization of. 6610

**Galeola,** phylogeny and ecology of. 2400

**Galicitis vittata brasiliensis,** natural infection of with Trypanosoma cruzi. 1734

**Gall,** caused by Peridermium harknessii, occurrence and significance of fungi inhabiting. 6556

**Gall-formers,** on the fruiting bodies of polyporaceous fungi, dipterous insects as. 3851

**Galleria mellonella,**
- enzymatic systems of Beauveria bassiana on the cuticle of. 3695
- granulomas resulting from infection by Aspergillus niger in. 1057

**Galleria mellonella larvae,** infected with virus and protozoan pathogens, protein changes in haemolymph of. 4519

**Gallus domesticus,** disturbed intestinal absorptions of vitamin A and carotenes and the effect of low pH during Eimeria acervulina infection in. 3726

**Gambia,** suppression of malaria with dapolar in. 2218

**Gambusia affinis,** myxosporida from. 3939

**Gametangia,** of Silurian Ischadites hemisphericus. 5814

**Gametes,**
- of Chlamydomonas reinhardtii, autolysis of cell wall from. 608
- of Hydrodictyon reticulatum, conjugation of. 6487
- of Iridia lucida, ultrastructure of. 3186

**Gametes (macro-),**
- of coccidia, fine structure of. 605
- of Eimeria falciformis, fine structure of. 603
- of Eimeria maxima, fine structure of. 5898
- of Toxoplasma gondii, fine structure of. 5861

**Gametes (male),** of Biddulphia levis, ultrastructure of. 4663

**Gametes (micro),**
- of Aggregata eberthi, fine structure of. 1890
- in Toxoplasma gondii, electron microscope study of development of. 2508

**Gametocysts (male),** of Bonnemaisonia hamifera, kinetic apparatus within. 1910

**Gametocytes,**
- of Haemoproteus methchnikovi, ultrastructure of. 4708
- of Plasmodium falciparum, evidence for cyclic development and short-lived maturity in. 1932

**Gametocytes (elongate and round),** of Leucocytozoon simondi in ducks inoculated with megaloschizonts. 1895

**Gametocyte maturation,** in Parahaemoproteus. 5902

**Gametogenesis,**
- of Haemoproteus methchnikovi, ultrastructural study of. 4708
- in Phytophthora palmivora, effects of white light on the early phases of. 5469

**Gametogenesis (male),** in Bonnemaisonia hamifera, formation of the flagellar crypt and evolution of its content in the course of. 5237

**Gametogenesis (micro),** in coccidia, electron microscope studies of. 3231

**Gametogony,** of Sarcocystis in cell culture. 2312

**Gametophyte,** of Allomyces, ultrastructural aspects of morphology of. 1215

**Gametophyte (female),** of Laminaria saccharina, reproduction induced by blue light in. 5462

**Gametophytic factor (X),**
- inheritance of Fusarium resistance in a jointless tomato as affected by. 5109
- synthesis of a jointless Fusarium resistant tomato by circumvention of. 1141

**Gander,** effect of Fusarium graminearum on semen production in. 467

**Ganglion,** African histoplasmosis of. 6246

**Gangrene,**
- caused by ergotamine in various inflammatory conditions. 249
- effect of temperature on development of following laboratory inoculation of potato tubers with Phoma exigua var. foveata. 2064
- effects of temperature of potato tubers on the incidence of during storage. 3839
- of potato. 7672, 7704
- of potato caused by Phoma exigua var. foveata, laboratory assessment of susceptibility to. 358

**Ganvie,** parasitological studies among the population of a pile-built lake village of. 4415

**Garigliano,** trophic interrelations in. 7689

**Garlic,** role of allicin in resistance of to Penicillium. 2684

**Garlic powder,** method for preparation of for examination by the Howard mould count method. 3553

**Gas exchange studies,** on transpiration and photosynthesis of tomato leaves affected by Fusarium. 3046

**Gas oil,** feeding and multigeneration study in rats with yeast grown on. 2409

**Gas-pocket formation,** in olives, fermenting yeasts associated with. 4643

**Gas vacuolation,** in Anabaena circinalis natural population. 7093

**Gas-volume measurement system,** for evaluating effectiveness of antimicrobial compounds. 7700

**Gastrotrichs,** feeding on by Actinophrys sol. 380

**Gaultheria shallon,** Asterobolus causing leaf spot of. 5092

**Gel diffusion,**
- of factors excreted in vitro and in vivo, leishmanial serotypes as distinguished by. 7508
- immunologic analysis by, effects of prolonged cultivation on Histomonas meleagridis. 420

**Gel diffusion method,**
- for analysis of the antigenic relationships of among Trichomonas, Histomonas, Dientamoeba and Entamoeba. 6797
- antigenic analysis of virulent and avirulent Trichomonas gallinae by. 6795

**Gel electrophoresis,** analysis of blue-green and red algae rRNAs by. 2564

**Gelatin,** conditions for the precipitation of pectolytic enzymes by in the deep culturing of Sclerotinia sclerotiorum on pectin-containing media. 5339

**Gemmae,** production in algae, bryophytes and pteridophytes. 75

**Gene action.** 7485

**Gene action (incompatibility),** in Podospora anserina, analysis of pleiotropic mutations. 1608

**Gene conversion,**
- in Ascobolus immersus, mechanism of. 4377, 6183
- in Neurospora, effect of UV-light on. 4274
- in Schizosaccharomyces pombe, site specific induction of. 2839

**Gene conversion (mitotic),** in Saccharomyces cerevisiae, induction of in host-mediated assay. 4382

**Gene diminution,** during formation of macronucleus in Stylonychia, evidence of. 4396

**Gene dosage,** in yeast, photoreactivation and. 4381

**Gene effects,** in early development of Ulva mutabilis. 6756

**Gene-for-gene interactions,** between flax and Melampsora lini, characterization of disease resistance responses in. 6930

**Gene linkage,** and gene-enzyme relations in the fatty-acid-synthetase system of Saccharomyces cerevisiae. 2832

**Genes,**
- affecting the sexual development cycle in Neurospora crassa. 7479
- conferred resistance to leaf rust races in wheat var Bowie, relationship between. 6348
- conferring resistance to 8-aza adenine in Neurospora crassa. 2828
- controlling mitotic intragenic recombination and recovery from UV damage in Aspergillus nidulans. 1627, 1628
- controlling resistance to Fusarium and Thielaviopsis root rots in beans, relations between. 5111
- for the fermentation of maltose and α-methylglucoside in Saccharomyces carlsbergensis. 4378
- for general resistance to downy mildew of soybeans. 4555

**enes, contd.,**
  influence on selective fertilization in Neurospora crassa by. 6189
  for leaf rust resistance in common wheat, chromosome location of. 2177
  linked to B incompatibility factor, in Schizophyllum, suppression of mutation disruptive to nuclear migration in. 3590
  of the M1-a locus in barley for resistance to Erysiphe graminis f. sp. hordei. 1107
  for resistance to wheat powdery mildew in derivatives of Triticum. 5081
  in Saccharomyces, relationship to biosynthetic pathway of lysine. 4138
  in yeast, controlling bud emergence and cytokinesis. 2171
**enes (2 discrete),** dominance and non-complementation among pink-adenineless mutants of Schizophyllum commune involving. 2178
**enes (Bh S),** influence on Hb $A_2$ synthesis. 2931
**enes (late-determined),** in Tetrahymena heterozygotes. 2186
**enes (mitochondrial),** in Neurospora. 3296
**enes (mitochondrial and nuclear),** cooperation of in specifying the mitochondrial genetic apparatus in Neurospora crassa. 6192
**enes (new),** giving resistance to downy mildew of sunflowers. 1756
**enes (non-mendelian),** in Chlamydomonas reinhardtii, localization of. 4370
**enes (nuclease),** in Neurospora crassa, properties of. 6190
**enes (R),** stability of resistance to Phytophthora infestans in potato cultivars lacking. 2980
**enes (regulatory),** control in quinic acid catabolism in Neurospora crassa constitutive mutants of. 387
**enes (rev),** effect on recombination. 2087
**enes (ribosomal),** of Physarum, isolation and replication of in the mitotic cycle. 4375
**enes (RNA),** in Tetrahymena pyriformis, amount of in different physiological states. 4397
**enes (rRNA),**
  of Chlamydomonas reinhardtii chloroplast and nucleus, transcriptional mapping of. 3580
  preferential replication of during nutritional shift-up in Tetrahymena pyriformis. 6773
**enes (4S RNA),** on yeast mitochondrial DNA, number of. 5571
**enes (tRNA),** from Neurospora crassa, isolation of. 6193
**enes (structural),** for riboflavin synthetase in Saccharomyces cerevisiae. 6196
**enes $rib_1$ and $rib_7$,** in Saccharomyces cerevisiae, role of in riboflavine biosynthesis. 6201
**enetic alteration,** in hydroxylamine induced purple mutants of Neurospora crassa, identification of. 897
**enetic analysis,**
  in Arthroderma simii. 5580
  of mitochondrial resistance to tetracycline in Saccharomyces cerevisiae. 4387
  of pigment mutations of Chlamydomonas reinhardtii. 2152
  of sporocarp production in Pleurotus sapidus. 6768
  of a suppressor of urease-deficiency in Neurospora crassa. 2155
  of UV-sensitive mutants of Saccharomyces cerevisiae. 5573
**Genetic characterization,** of β-glucosidase mutants in Saccharomyces lactis. 5576
**Genetic control,**
  of cell division cycle in yeast. 2171
  of cellular differentiation in Ulva mutabilis. 4371
  of citrulline accumulation in Neurospora crassa and Schizosaccharomyces pombe. 2158
  of dark recombination in yeast. 2175
  of induction of monokaryotic fruiting bodies in Coprinus macrorhizus. 2068
  of mannan types produced by Saccharomyces cerevisiae. 2163
  of multiple forms of trehalose in Neurospora crassa. 2009
  of pathogenicity and toxin production in race T and race O of Cochliobolus heterostrophus causing Southern corn leaf blight. 2154
  of the reaction of corn to Ustilago maydis. 2344
  of sensitivity to mutagenic factors in Aspergillus nidulans. 4392
  of sensitization by oxygen involving repair systems in Saccharomyces. 5577
  of sporulation in Saccharomyces. 4383
**Genetic determination,** of esterases of syngens 1 and 8 in Paramecium aurelia. 4395
**Genetic disorders,** implications of in lysosomal localization of β-fructo-furanosidase-containing liposomes injected into rats. 7242
**Genetic fine structure,** in the ftr cistron of Coprinus. 7486
**Genetic implications,** of current models of somatic nuclear division in fungi. 6771
**Genetic level,** allelic interactions at. 3586
**Genetic modification,** of electric properties in an excitable membrane. 5586
**Genetic organization,** of the fatty acid synthetase complex of yeast. 5584
**Genetic recombination,** in Neurospora crassa affecting changes in the supply of cellular energy. 2156
**Genetic stability,** of diploid yeasts, effect of flight conditions on. 2067
**Genetic stocks,** of hulless barley, reaction of to yellow rust. 6939
**Genetic susceptibility,** to Glomerella leaf blotch in apple. 2326
**Genetic variability,** in yeast, accumulation of. 2167

- **Genetics,**
  - of Alternaria resistance in wheat. 6350
  - and biosynthesis of cytochrome c. 4388
  - of disease resistance in plants. 4604
  - of urease-defective Neurospora crassa. 966
- **Genetics (comparative),** of yeast. 4379
- **Genetics and heritability,**
  - of resistance to Fusarium solani f. phaseoli in beans. 5110
  - of resistance to Thielaviopsis basicola in beans. 5129
- **Genital infection,** in women, polyester sponge swabs to facilitate examination for. 431
- **Genital organs,** serodiagnosis of candidiasis of. 6253
- **Genital organs (male and female),** amoebiasis in. 3672
- **Genital ulceration,** diagnosis of. 3639
- **Genitourinary tract involvement,** with systemic mycosis. 6260
- **Genitourinary tract trichomonas infections,** in males, diagnosis and treatment of. 5028
- **Genome,**
  - of Dictyostelium discoideum, characterization of. 5307
  - of yeast zygote, induction of recombination by decay of $^{32}$P incorporated into. 7490
- **Genome (mitochondrial),**
  - of wild type yeast cells. 4073, 4074, 4159
  - in yeast, studies on the nature of. 4947
- **Genome amplification,** and gene expression in the ciliate macronucleus. 6774
- **Genome size,** comparison with thermal denaturation derived base composition of DNAs from Entamoeba. 1632
- **Genomic exclusion,**
  - in selected C$^*$ subclones of Tetrahymena. 406
  - selective mating in Tetrahymena during. 407
- **Genotype,**
  - of corn, reaction to Helminthosporium maydis toxin. 3054
  - effect of on phenotypic expression of mutations in yeast. 6765
  - reaction of corn inbreds and hybrids differing in to Helminthosporium maydis race T. 5114
  - variation within phenotype as basis for somatic hybridization in rust. 395
- **Genotypic alterations (specific),** effect on the virulence of Aspergillus nidulans for mice. 1629
- **Genotyping,** of environmental interactions in Schizophyllum commune, assessment of the environment. 5581
- **Gentianaceae,** phylogeny and ecology of. 2400
- **Geochemical activity,** of microorganisms in deposits of minerals. 5775
- **Geotrichosis (pulmonary).** 2894
- **Geotrichosis (skin),** high incidence of in Puerto Rico. 6775
- **Geranium,** effect of temperature and light on colonization of sporulation of Botrytis on. 5094
- **Geranylgeraniol,** as the major metabolite of mevalonate in Phytophthora cactorum. 6051
- **Gerbera,** Phytophthora blossom blight of. 1099
- **Gerbil (great),** infection of with Leishmania tropica major in Karakalpak ASSR. 4507
- **Germ plasm (red clover),** development of resistance to Kabatiella caulivora in. 3057
- **Germ tube,** of fungal spores, exponential growth of. 99
- **Germ tube (uredospore),** of Puccinia graminis tritici, behaviour of in relation to fine structure wheat leaf surfaces. 3005
- **Germ tube growth,** in Penicillium, effect of soil fungistasis on. 3091
- **Germ tube wall,** of wheat rust ureodospores, investigations on the chemical composition of. 5304
- **Germany,**
  - contribution to the faunistics of the avian Coccidia of Thuringia and Saxony in. 6559
  - fungus flora of Rhineland in. 3266
  - enrichment experiments in the Riveristal reservoir in. 4933
  - limnology of Mecklenburg lakes in. 6536
- **Germany (East),** intestinal parasites in citizens of who travel abroad. 2853
- **Germany (Northern),** Eperythrozoon ovis infection in sheep in. 1744
- **Germany (Westphalia),** contribution to the fungal flora of. 1320
- **Germinability,** of Entomophthora resting spores. 301
- **Germinal centre function,** effect of immunosuppression in murine malaria on. 1666
- **Germination,**
  - in Agaricus bisporus, and spore lipids. 1467
  - of Allomyces, surface structure in. 4676
  - of Alternaria citri spores, in vitro effect of aureofungin on. 1548
  - of Aphanomyces cochlioides. 4908
  - in Arthrobotrys conidia. 3974
  - of Aspergillus fumigatus conidia, fine structure and physiology of. 1923
  - in Aspergillus nidulans spores, macromolecula composition and nuclear division during. 95
  - of Aspergillus niger conidia, production of conidiophores and conidia after. 3224
  - in Aspergillus niger, effect of elevated temperatures on. 6668
  - of Blastocladiella emersonii zoospores. 5242
  - of Botrytis cinerea spores, fine structure of. 1284
  - of Cercospora beticola conidia, effect of phenol on. 1527
  - of Cercospora canescens conidia. 6950
  - of Chaetomium thermophile var. coprophile ascospores, effects of nutrients, temperatur and relative humidity on. 2061, 2718

**ermination, contd.,**
- of Chara delicatula oospore, light reactions in the control of. 878
- of Claviceps purpurea sclerotia, effect of temperature on. 2719
- of Coelomomyces psorophorae resistant sporangia. 5883
- of Colletotrichum falcatum spores, effect of chlorogenic acid on. 914
- of Cronartium comandrae basidiospores on rocks and vegetation. 4705
- of Eutypella parasitica ascospores. 79
- of flax rust ureodospores, rRNA synthesis and ribosome formation during. 4076
- of Fomes annosus-spores, observations on the influence of soil on. 1163
- of Fusarium culmorum conidium, behaviour of nuclei during. 3977
- of Fusarium oxysporum f. sp. vasinfectum. 1963
- of Geotrichum candidum spore, utilization and metabolism of urea during. 3574
- of Hansenula holstii ascospores. 1273
- of Microsporum gypseum macroconidia, regulation and self-inhibition of. 101
- Microsporium gypseum macroconidia, role of lysosomes in. 5217
- of Neurospora crassa, tRNA methylases in. 81
- of Penicillium digitatum spores as affected by solutions of volatile components of citrus fruits. 7125
- of Peziza ostracoderma conidia. 1274
- of Phycomyces spores, cytochrome content during. 6035
- of Phyllactinia corylea conidia at low humidities 82
- of Phytophthora megasperma var. sojae oospores. 1914, 3213
- of Pilaira anomala. 3849
- of protozoa, role of transfer kinetosomes in. 2510
- of Puccinia carthami teliospores, effect of host plant materials and temperature on. 7118
- of Puccinia graminis var. tritici uredospores, effect of pretreatment with stimulator and water vapours on. 4253
- of Puccinia graminis var. tritici uredospores, investigation of glucose metabolism during. 4361
- of Pythium aphanidermatum oospore, effect of time, temperature and pH on. 619
- of Ravenelia hobsoni teliospores. 1281
- of Rhizopus arrhizus spore, effect of dimethyl sulphoxide on. 5500
- of Rhizopus stolonifer spores, changes in soluble RNA polymerase associated with. 5972
- of rust fungi spores. 4706
- of Saccharomyces cerevisiae spores, study of by scanning electron and phase-contrast microscopy. 3968
- of Schizophyllum commune basidiospore, isotopic studies of carbohydrate metabolism during. 5391
- of Sclerospora graminicola oospores. 5886
- of Spathoglossum pacificum and Dictyopteris undulata tetraspores. 7104
- of stored pea seed, changes in resulting from infection by Aspergillus ruber and ageing. 7015
- of uredospores, effect of nonyl derivatives and related compounds on. 1523
- of uredospores of stem rust of wheat in the pustule, stimulation of by n-nonanal and related compounds. 4254
- of Uromyces dianthi urediospores, observation of by scanning electron microscope. 3222
- of Uromyces phaseoli uredospores, metabolism of phospholipids during. 2675
- of Verticillium dahlia conidia in soil. 3228

**Germination (daily),** of Cronartium comandrae aeciospores. 3221

**Germination (pre),** of Ustilago hordei hydrating teliospores, development of. 6463

**Germination (repeated),** of Botrytis convoluta sclerotia to produce successive crops of conidia. 6123

**Germination inhibitor,**
- of Aspergillus conidium effect of irradiation on. 4878
- from stem rust uredospores, properties of. 2677

**Germination self-inhibitor,** from wheat stem rust uredospores, identification of. 870

**Germling,**
- of Oedogonium, cell division in. 3952
- of Oedogonium, differentiation of. 3951

**Ghana,** serious leaf infection of cassava in. 5098

**Giardiasis,** 4465
- cause of traveler's diarrhoea. 1699
- complication of self medication with oxyquinolines for. 451
- diagnosis and treatment of. 5022
- epidemiology of in Sweden. 2847
- metronidazole in. 2250
- occurrence of in adult patients with abdominal symptoms and in symptomless young adults. 1637
- relation of to abnormal intestinal structure and function in gastrointestinal immunodeficiency syndromes. 4464

**Gibberellic acid,**
- effect on algal growth. 2034
- effect on growth and spore liberation of Enteromorpha prolifera v. tubulosa. 4236

**Gibberellin,** comparative effect of N-methyl-N-nitro-N-nitrosoguanidine and UV light on producer of. 3592

**Gibbon,** Plasmodium hylobati infection of. 4524

**Gill tissue,** of sporulating Agaricus bisporus, mechanism of action of a respiratory inhibitor from. 5472
**Gingelly seed,** role of seed-borne fungi on the deterioration of quality of. 5799
**Girdle bands,** of Stephanodiscus, observations of during cell division. 3862
**Gizzard shad,** algae in lateral-line canals of. 3244
**Glacial migration (post-),** of rust fungi to North Europe. 7184
**Glacial moraines,** in New Zealand, establishment of lichen-growth curves. 128
**Glena bisulca,** defoliator of Cupressus lusitanica in Colombia, fungi of. 6858
**Gliotoxin,**
  effect on Sclerotium cepivorum causing white rot of onion. 1552
  from Trichoderma viride, oxygen requirements and effect of barbiturate. 264
**Gliotoxin biosynthesis,** in Trichoderma viride, competition of with stereospecific exchange reaction of phenylalanine. 3391
**Globulin ($\alpha_2$-macro),** inhibition of keratinases by. 7254
**Globulin (γ),** deposition of in the glomeruli of kidneys of mice infected with rodent malaria. 7513
**γ-Globulinaemia (hypo),** successful defence against Histoplasma capsulatum in. 5015
**Glomeruli,** of kidneys of mice infected with rodent malaria, deposition of γ-globulins in. 7513
**Glomerulonephritis (acute),** during falciparum malaria, renal failure due to. 4485
**Glomerulonephritis (acute focal),** in the rabbit induced by injection of Saccharomyces cerevisiae. 6859
**Glossina,**
  comparison of as vectors of Trypanosoma. 3709
  lack of infectivity to cattle in Trypanosoma simiae transmitted by. 474
  role of transmission of sleeping sickness in Tanzania. 1645
**Glossina fusca congolensis,** fungal pathogens of. 5649
**Glossina morsitans,**
  importance of donkey as source of food and reservoir of trypanosomes for. 3710
  infection of by Trypanosoma brucei in relation to parasitaemia in the mouse host. 5048
**Glucan,**
  of Cochliobolus miyabeanus cell walls. 222
  from Microsporum quinckeanum, occurrence of pyruvic acid ketal in. 6624
  of Rhodotorula glutinis. 6048
**α-1,3-Glucan,** of Aspergillus nidulans cell wall, significance of. 6046
**A(1→3)-α-D-Glucan,** Aspergillus niger cell wall, structure of. 7285
**β-D-Glucan,**
  from Basidiomycete QM 806 mycelial wall, structure of. 5390
  from Piricularia oryzae cell wall, chemical structure of. 4163
**x-(i→4)-D-Glucan,** from Haematococcus pluviali and Tetraselmis carteriiformis, molecular structure of. 5386
**Glucan (extracellular),** production of by Aureobas dium pullulans. 5393
**D-Glucan (highly branched exocellular),** from Monolinia fructicola. 4158
**Glucan (poly),** in algae, de nova synthesis of by phosphorylase isoenzyme. 1386
**β-1,3-Glucan (soluble),** in oomycetes. 7282
**Glucanase,** produced by Arthrobacter in sphaerop ast formation from baker's yeast, joint action of. 6097
**α-1,3-Glucanase,** for Aspergillus nidulans cleistothecium development, significance o 6046
**β-Glucanase,** in Saccharomyces lactis, comparis with β-glucosidase. 742
**β-1-3-Glucanase,**
  from Rhizopus arrhizus, purification and properties of. 3315
  from thermophilic fungi, yeast cell lytic activity and. 2591
**p-Glucanase,** secretion of by Saccharomyces cerevisiae protoplasts. 5335
**α-D-(1→4) Glucanase (endo-),** from Penicillium melinii, purification and properties of. 263
**α-1,3Glucanase (exo-splitting),** from non-induced cultures of Aspergillus nidulans. 2620
**β-(1 3)-D-Glucanase (exo),** study of action patter of. 2613
**β-1→3 Glucanase (exo-),** from Basidiomycete QM 806, use of in studies of yeast. 3323
**R-Glucanase activity,** and susceptibility of hyphal walls to degradation in Schizophyllum mutants with disrupted nuclear migration. 6598
**β-Glucanase activity (intracellular),** of Phytophth palmivora. 5971
**Glucanase-containing vesicles,** from budding yeast, isolation of. 5331
**Glucide (free),** in Euglena gracilis, variations in amount of during plastid formation. 2481
**Glucide metabolism,** of Cycloposthium of the caecum of horses. 4148
**Glucoamylase,**
  of Aspergillus awamori, hydrolysis of substra by. 6003
  from Aspergillus niger, structure and properties of. 1987
**Glucoamylase I,** from Aspergillus niger, photo-oxidation of. 1409
**Glucocerebroside,** from Hansenula ciferri, isolation of. 223
**Glucocorticoid-cytostatic therapy (combined),** Mollusca contagiosa disseminata in mycosi fungoides under. 3653

**ucokinase,** in Euglena gracilis, partial characterization of. 155
**ucomutase (crystalline yeast phospho-),** fundamental properties and chemical modification of. 2605, 3327
**ucomutase (phospho),** activity of during morphogenesis of nucleate and anucleate Acetabularia cells. 5959
**uconeogenic and glycolytic pathways,** of Tetrahymena, compartmentalization of acetyl coenzyme A in structure of. 6025
**Gluconic acid,** content of in wines of different quality. 6410
**ucopyranase (deoxyfluoro-D),** use of in the study of yeast hexokinase specificity. 6018
**ucopyranoside (5'-D-riboflavin-α-D),** in growing cultures of Mucor production of. 221
D-Glucopyranosyl-D-fructoses, in brewer's yeast, synthesis by transglucosidation reaction with α-glucosidase. 2010
**Glucosamine,** effect of on the growth of Coprinus lagopus hyphae. 6098
**ucosamine,** effect of temperature on accumulation by Candida utilis. 889
**ucosaminidase (N-acetyl-β-D),** of Aspergillus oryzae, substrate specificity of. 4113
**ucose,**
aerobic oxidation of by Trypanosoma cruzi. 2666
in Chlorella vulgaris, transport of. 220
comparative action of acetate and ethanol on the oxidative degradation of by bakers' yeast. 2661
content of thiamine in cells of Candida yeasts growing on. 1499
differential sensitivites of malate dehydrogenases and maltose permease to the effect of Saccharomyces carlsbergensis. 5329
effects of different substrates on uptake by Euglena gracilis. 374
effect of on galactokinase in Saccharomyces cerevisiae. 7224
endogenous metabolism of Saccharomyces cerevisiae in relation to. 2563
fatty acid composition of Cladosporium resinae grown on. 827
fatty acid distribution in triglycerides of yeasts grown on. 6628
in the food chain Azotobacter-Tetrahymena pyriformis, use of $^{14}$C for determination. 383
formation of N-acetyl-L-alanine and N-acetylglycine by Candida tropicalis from. 209
growth of Plectonema boryanum in the dark on. 6708
influence of on respiratory adaptation in the synthesis of protohaeme by Saccharomyces cerevisiae. 7336
metabolism of by Entodinium simplex. 5567
from Phaeocystis poucheti, production of. 3357
respiratory activity of Candida tropicalis during growth on. 5442
  role of in the induction and self-maintenance of internal rhythm of zonation in Aspergillus niger. 3225
  in a Saccharomyces cerevisiae mutant, metabolism of. 225
**$^{14}$C-Glucose,** effect of Eimeria on absorption and metabolism of, in chickens. 476
**[$^{14}$C] Glucose,** uptake of and loss of water by sclerotia of Sclerotinia sclerotiorum during development. 2146
**D-Glucose,** utilization by fruit-rot fungi. 1598
**Glucose (2-deoxy),** incorporation into inositol-containing yeast phospholipid. 2672
**Glucose (2-deoxy-D),**
  in bakers' yeast, metabolism of. 4801
  effect on biosynthesis and secretion of yeast invertase. 1402
  effect of on the growth of Coprinus lagopus hyphae. 6098
  induction of protoplast in Histoplasma capsulatum yeast phase by. 2720
  induction of protoplasts of Schizosaccharomyces octosporus by. 3465
  inhibition by of synthesis of glycoprotein enzymes by protoplasts of Saccharomyces. 7234
  metabolism of by bakers' yeast. 3363
  mutants of Coprinus lagopus selected for resistance to. 2176
**Glucose (exogenous),** inhibitory effects on the biosynthesis of protohaem by Saccharomyces cerevisiae. 2723
**Glucose (3-0-$^{14}$C methyl),** in Neurospora crassa, transport of. 3359
**Glucose (3-0-methyl-14C-D),** in Synechoccus cedrorum, uptake of. 1448
**Glucose (radioactive),** uptake of by Schizophyllum commune basidiospore during germination. 5391
**Glucose catabolism,** in Phymatotrichum omnivorum, pathways of. 7288
**Glucose concentration,** influence of on the physiology and lipid composition of some yeasts. 5470
**Glucose-de-repressed Saccharomyces carlsbergensis,** subcellular fractionation by differential and zonal centrifugation of. 3538
**Glucose feed rate,** and dilution rate, response of continuous culture to stimuli in. 3551
**Glucose-free milk diet,** development of. 3825
**Glucose metabolism,**
  by Aspergillus niger, influence of pentachlorophenol on. 5392
  in germinating Puccinia graminis var. tritici uredospores, investigation of. 4361
  in a phosphoglucoisomeraseless mutant of Saccharomyces cerevisiae. 1364
**Glucose-peptone medium,** effect on the psychrophilic growth of Chaetostylum fresenii. 6090

**D-Glucose-6-phosphate,** from Neurospora crassa, effect of $(NH_4)_2SO_4$ glycerol on the preservation of the $NAD^+$-independent activity of. 5325
**Glucose-6-phosphate dehydrogenase,**
  in Colpoda maupasii, activity of. 191
  lack of synthesis of during differentiation of Physarum polycephalum. 5968
  and malaria. 7500, 7572
  micro disc electrophoresis and quantitative analysis of at the cellular level. 7258
  of Penicillium, purification and properties of. 6009
**Glucose-6-phosphate dehydrogenase levels,** and haemoglobin types of cattle in East Africa in relation to resistance to East Coast fever. 4521
**Glucose-6-phosphate dehydrogenase variants and haemoglobin,** distribution of in relation to malaria endemicity in Togolese population. 5591
**Glucose phosphorylation,** in Euglena gracilis, partial characterization of glucokinase. 155
**Glucose pool,** of rumen digesta, fate of carbon passing through. 1463
**Glucose-repressed anaerobically grown Saccharomyces carlsbergensis,** subcellular fractionation by zonal centrifugation of. 4771
**Glucose repression,**
  in Mucor genevensis, absence of after anaerobic growth. 2717
  in yeast, and mitochondrial DNA. 4754
**Glucose superrepressed and derepressed respiratory mutants,** in petite-negative Schizosaccharomyces pombe. 6207
**Glucose transport,** in Neurospora, transcription and degradation of mRNA for. 705
**Glucose uptake,**
  in Chlorella, lack of effect of N-methyl phenazonium methosulphate on far-red induction of. 3441
  by Cyclotella cryptoca. 2808, 3436
**α-Glucosidase,**
  of brewers' yeast, α-D-glucopyranosyl-D-fructoses synthesized by the transglucosidation reaction of. 2010
  and leavening of bakers' yeast. 5987
  from Mucor rouxii, purification and characterization of. 2589
**β-Glucosidase,**
  activity of in Dictyostelium discoideum in axenic culture. 3310
  from Aspergillus wentii, composition, N-terminal amino acids, and chain length of. 2652
  from Botryodiplodia theobromae, kinetic properties of. 758
  in Coprinus, function of in autolysis. 1405
  in Saccharomyces lactis, comparison with β-glucanase. 742
  synthesis of in Dictyostelium discoideum myxamoebae differentiation in axenic culture. 3311
**Glucosidase (aryl-β),** in Neurospora crassa synchronous conidiation, patterns of. 1394
**Glucosidase (α-methyl),** in Saccharomyces carlsbergensis, regulation of synthesis of. 5982
**β-Glucosidase activity,** mutants in Saccharomyce lactis with control of. 4389
**β-Glucosidase mutants,** in Saccharomyces lactis, biochemical and genetic characterization of 5576
**Glucosides (poly),** correlation between virulence of Colletotrichum lagenarium and degradati of in the cell walls of sensitive host. 5100
**Glucosides (reserved poly),** in free and lichenize Nostoc, cytochemical detection of in the electron microscope. 5384
**Glucosylceramides,** from Hansenula ciferri, isolation of. 223
**Glutamate,**
  of aerobic yeasts, rhythmic changes of. 867
  effect of phosphate on oxidative deamination of by $NADP^+$ specific yeast glutamate dehydrogenase. 181
  effect on respiration-deficient mutation induction in yeast. 4284
**Glutamate dehydrogenase,**
  in Physarum polycephalum activity during sphaerulation induced by mannitol. 1391
  of Plasmodium lophurae. 190
**Glutamate dehydrogenase (yeast, $NADP^+$ specific** effect of phosphate on the oxidative deamination of glutamate. 181
**Glutamine,** prevention of inhibition of growth by methionine sulphoximine by. 5459
**Glutamine synthesis,** in yeasts, role of inactivati of glutamine synthetase and NAD-specific dehydrogenase in regulation of. 3338
**L-Glutamic acid,** in the culture of Leishmania tarentolae. 1600
**L-Glutamic +DL-aspartic + L-leucine +DL-tryptophan acids,** utilization by storage rot fungi. 1597
**Glutaraldehyde,** antifungal activity in vitro. 4887
**Glutaric acid,** in Candida tropicalis, formation o from n-alkanes with odd and even numbers of carbons. 1469
**Glutathione,** in chicks after infection with Eimeri necatrix, effect of radiation protection substances on quotient of. 1083
**Glycans (extracellular hetero),** of Rhizopus nigricans, study of. 1454
**Glycerides (tri and phospho),** incorporation of labelled precursors into at selected stages of fungal growth. 4168
**D-Glycero-D-mannoheptitol,** production of by Torulopsis versatilis. 6654
**Glycerol,**
  in Dunaliella, osmotic regulation of productio

**Glycerol, contd.,**
    of. 273
  effect of on the preservation of the $NAD^+$-independent activity of D-glucose-6-phosphate L-myo-inositol-1-phosphate cycloaldolase from Neurospora crassa. 5325
  stimulation of yeast sporulation by. 4852
**Glycerol gradient (equivolumetric),** for the B-XIV and BXV zonal rotors. 6722
**Glycerol-$^3$H,** as labels for membrane phospholipids in Acanthamoeba palestinensis. 830
**Glycerolated cultures,** of Ochromonas, conservation of. 4232
**Glycerophosphorylinositol,** in Saccharomyces cerevisiae, extracellular accumulation of. 7295
**Glycine,**
  blue-green algal response to. 1586
  prevention of inhibition of Rhizobium trifolii by calcium by. 6068
  role of in the biosynthesis of terpene. 1999
**L-Glycine,** in the culture of Leishmania tarentolae. 1600
**Glycine biosynthesis,** in Saccharomyces, genetic and physiological control of. 2838
**Glycoenzymes,** from Aspergillus niger, structure and properties of. 1987
**Glycogen,**
  in Dictyostelium discoideum, effects of 3',5'-AMP and 5'-AMP on degradation synthesis of. 1453
  from Phymatotrichum omnivorum, physico-chemical properties of. 5394
  in yeast during starvation and during ethanol formation under the influence of propanol or ethanol, decrease of. 6045
**Glycogen synthesis,**
  control of in Dictyostelium discoideum during growth phase. 3312
  in Dictyostelium discoideum, control of during cell differentiation. 3313
**Glycolate,**
  effect of monochromatic light on the extracellular excretion of in Anacystis nidulans. 6658
  growth of Chlorella pyrenoidosa on. 372
**Glycolate:dichlorophenolindophenol oxidoreductase,** in Chlamydomonas reinhardtii. 1387
**Glycolate excretion,** in blue-green algae, investigation of. 4149
**Glycolate oxidoreductase,** in Euglena gracilis, localization of. 154
**Glycolic acid metabolism,** in Saccharomyces cerevisiae. 3462
**Glycolysis,**
  in Aspergillus niger growth cycle, changes in intracellular concentrations of intermediates during. 143
  in Chlorella cells, spectrophotometric determination of the intermediates of. 2657
  effect of cytochalasin B on. 7314
  role in sporulation of Aspergillus niger in submerged culture. 96
**Glycolysis (oscillatory),** in yeast, pattern of phase resetting by oxygen. 5449
**Glycolysis regulation,** in Saccharo-carlsbergensis, influence of substrate metabolism on. 2659
**Glycolytic flux,** in anaerobic yeast cell, application of kinetics of yeast pyruvate kinase in vitro to calculation of. 6591
**Glycolytic and gluconeogenic pathways,** in Tetrahymena, compartmentalization of acetyl coenzyme A in structure of. 6025
**Glycolitic intermediates,** of Chlorella, different carbon and nitrogen nutrition in. 2810
**Glyconeogenesis,** in Saccharomyces cerevisiae, regulation of pyruvate kinase during. 734
**Glycosidases,** of Aspergillus niger. 5346, 5347
**Glycoside (pteridine),** from Aspergillus oryzae, structure of. 7286
**Glycosides (triterpene),** inhibition of fungal growth and metabolism by. 3500
**Glyoxalate cycle,** in Tetrahymena, distribution of carbon label in. 247
**Glyoxylate carboxylyase,** in Gloeomonas sp., activity of. 153
**Gmelina,** leaf spots in. 3030
**Gnat (eye),**
  infected with Herpetomonas muscarum, histological observations on the larvae of. 7589
  susceptibility of to entomogenous bacteria and fungi. 5659
**Gnotobiotic mice,** influence of antibiotics or certain intestinal bacteria on orally administered Candida albicans in. 1726
**Goat,** Nosema cuniculi infection in. 5690
**Goat liver,** nucleotide inhibition of UDPglucose 4-epimerase from. 2722
**Gold precipitation,** from chloride solutions by moulds. 7723
**Golden branch,** of citrus trees. 6340
**Golgi apparatus,**
  of amebae, alterations in in the presence of an inhibitor of protein synthesis. 1530
  in amoebae, decreased formation of in the presence of RNA and protein synthesis inhibitors. 2080
  in amoebae, influence of inhibitors of energy metabolism on the formation of. 6111
  in Amoeba proteus, connection between cisternae of and the granular endoplasmic reticulum. 3182
  in amoebae, cytochemical staining of. 54
  of Gymnodinium ultrastructure of. 6474
  of naked swarmers of Cladophora and Chaetomorpha, structure of. 1838
  in normal cells and protoplasts of Schizosaccharomyces pombe. 5202
  in postmeiotic basidium of Coprinus algopus. 5206

- **Gomphiocephalus hodgsoni,** from the Antarctic, food habits of. 537
- **Gonadectomy,** influence of on Candida albicans urinary tract infection in CFW mice. 4497
- **Gonimoblast formation,** in Halymenia trigona, method of. 3206
- **Gonophores,** in Halymenia trigona, structure of. 3206
- **Goodman test method,** multiple comparisons derived from contingency tables using. 2786
- **Goose,** brain aspergillosis in. 464
- **Gooseberry (Chinese),** as new host for Armillaria mellea. 3764
- **Gorakhpur,** aeromycology of. 1336
- **Gossypium,** susceptibility of to seedling anthracnose. 3032
- **Gossypium arboreum seedlings,** effects of nitrogen compounds on resistance of to Colletotrichum gossypii. 3775
- **Gossypium hirsutum,**
  - common antigens among vars of. 4422
  - comparative virulence of American and Australian isolates of Verticillium albo-atrum in. 2380
  - effects of ultra-low volume and conventional spray applications of in-covering-soil fungicides on stands of. 2382
  - relation of Verticillium albo-atrum strs to severity of wilt in. 2381
- **Gossypol,** effect on dimorphism in Verticillium albo-atrum. 2760
- **Goura cristata,** Toxoplasma gondii isolated from. 4531
- **Gout,** case of sporotrichial arthritis mimicking. 2900
- **Grackles,** prevalence of Sarcocystis in. 132
- **Grain,**
  - production of zearalenone by Fusarium graminearum in. 4830
  - quantitative determination of tremortins in. 846
- **Grain (small),** ergot as recurring problem of. 6329
- **Grain (whole wheat),** Aspergillus flavus deterioration of and effect of amino acids and vitamins in. 5794
- **Grain bulks (insect-infested),** canonical correlation analysis of abiotic and biotic variates in. 3828
- **Grain microflora,** development of. 3842
- **Grain yield,** corn, effect of race T of Helminthosporium maydis on. 1143
- **Gram,** studies on Sclerotium rolfsii isolates from. 3064
- **Gramineae,** see also Grass.
  - fungal parasites of in Mexico. 3039
  - general implications of incidence of Ustilaginales on. 5738
- **Graminicolous hosts,** Helminthosporium maydis on. 4589
- **Grand Cayman Isle,** environments and organic communities of. 5934
- **Granules,** in Physarum polycephalum mitochondria, effects of starvation and light on. 3448
- **Granules (central),** and actinomycin D in the nuclear pore complex. 4353
- **Granules (cyanophycin and structured),** in Anabaena cylindrica, correspondence between. 4788
- **Granules (eyespot),** from Euglena gracilis var. bacillaris, large scale isolation and purification of. 6710
- **Granuloma (amoebic),** relation to cancer of the caecum. 454
- **Granuloma (Candida),**
  - case of. 2887
  - review and case report. 4444
- **Granuloma (foreign body),** of the lung in a joiner, aspergilloma grafted on. 5610
- **Granuloma annulare-like pattern,** in mycosis fungoides. 5637
- **Granuloma type antifungal reaction,** in insects. 294
- **Granulomas,** in Galleria mellonella, as result of infection by Aspergillus niger. 1057
- **Granulomatosis (Wegener's),** initial appearance of as otitis media. 5001
- **Granulomatous disease (chronic),**
  - of childhood, surgical considerations. 2230
  - thyrotoxicosis associated with Aspergillus thyroiditis in. 3631
- **Grape,** pre-harvest sprays of fungicides for control of storage decay in. 4641
- **Grape (Haryana),** nature and occurrence of yeasts in. 1950
- **Grape Botrytis,** spraying technique and expenditure of spray emulsion in the control of with Benomyl. 6948
- **Grape juice,** in Nitra vine region, microflora of. 3269
- **Grape vine,**
  - infected with phylloxera, effect of manganese on physiological processes in. 6993
  - role of free amino acids in anthracnose disease development in. 4588
  - root and basal stem rot of caused by Thielaviopsis basicola. 6364
- **Grapefruit,** cause and control of pink pitting on. 3031
- **Grass,** see also Gramineae.
  - ergot as recurring problems of. 6329
  - in Australia, Leptosphaeria of. 5722
  - effect of Sclerotinia borealis on the wintering of at the Muddusniemi Experimental Farm of the University of Helsinki. 6980, 6981
  - inheritance of factors in Cochliobolus sativus conditioning lesion induction on. 963
  - systemic activity of 1,1,1-trichloro-3-nitro-2-propanol against smut fungi in. 1125
- **Grass (Bermuda),** leaf spot diseases of incited by Helminthosporia in India. 5747
- **Grass (couch),** infection experiments with brown rust in Bohemia. 3007
- **Grass (Merion Kentucky blue),** chemical control of Fusarium blight of. 2362

**rass (napier),** a host for Pyricularia. 5752
**rass (rye),** blast of in Mississippi. 5753
**rass (turf),** in Saskatchewan, snow mould of. 5756
**rass (wild and cultivated),** role of in the hybridization of formae speciales of Puccinia graminis. 6935
**rass blades (excised),** for fungicidal evaluation against Helminthosporium sorokinianum. 2367
**rasscarp,** protozoan diseases of the fry of. 1079
**rasshopper,**
  effect of the seeds of Abrus precatorius on mitosis and meiosis in. 7392
  experimental application of Nosema locustae for control of. 3736
**rassland soil,** of Jabalpur, Phoma exigua from. 4622
**reat Barrier Reef,** biology and ecology of Marginopora vertebralis from. 4047
**reece,**
  diseases of cultivated plants in. 1755
  Erysiphaceae of. 5196
  study of the lichens in Peloponese in. 3286
  tinea pedis in. 2192
  Verticillium wilt in. 5132
**reen Euglena gracilis,** novel closed circular duplex DNA in. 6564
**reenheart,** biodeterioration of in water cooling towers. 543
**reenhouse evaluation,** of Verticillium, Fusarium and root knot nematode on cotton. 4582
**reening Euglena gracilis,** chloroplast RNA populations in. 1360
**reenland,**
  fallout radionuclide distribution in lichen communities in. 3846
  plutonium in lichen communities of. 2419
**reenland (southeast),** lichen finds from. 5933
**riseofulvin,** 4187
  effects of on mitosis in Aspergillus nidulans. 6695
  immunosuppressive effect of. 419
  in the treatment of skin diseases. 1697
**riseofulvin analogues,** derived from transformations of 5'-formylgriseofulvin. 2103
**riseofulvin-producing,** Penicillium nigricans, UV light in selection of. 900
**riseofulvin-sensitivity,** of dermatophytes in vitro, determination of. 4304
**riseofulvin sensitivity test,** use of in vitro for differentiation of Trichophyton. 3549
**riseofulvin therapy,** studies on for patients with onychomycosis. 3654
**roundnut,**
  efficacy of fungicides in controlling collar rot of. 6354
  in India, rust on. 5732
  infestation of during importation to Poland. 3115
  Penicillia from Rhizosphere of. 4621
  studies on Sclerotium rolfsii isolates from. 3064
**Groundnut (stored),** seed-borne fungi of and control with metadinitrobenzene. 4645
**Groundnut leaves,** near Madras, rust on. 5731
**Groundnut pod,** infection of by isolates of Aspergillus flavus with different aflatoxin-producing potentials. 1131
**Groundnut pod rot potential,** in 3 crop rotations as indicated by relative Pythium population in soil. 6379
**Growth,**
  of Acrochaetium thallus, action of some monochromatic radiations on. 6088
  of algae, effect of carbon on. 6745
  of algal populations in freshwaters. 7174
  of Allomyces, surface structure in. 4676
  in American elm seedlings as influenced by Dutch elm disease and plant-water stress. 7630
  of Amorphotheca resinae, physical factors influencing. 620
  in Anabaena circinalis natural population. 7093
  of Anabaena doliolum and Fischerella mucicola. 4694, 4695
  on aqueous-oil and aqueous-solid dispersed systems, kinetics of. 5536
  in Armillaria mellea, stimulation of by ethanol and acetate and inhibition of by disulfiram. 5889
  of Aspergillus niger mycelium, effect of hydroxylamine on. 6173
  of assemblages of attached estuarine diatoms, effect of light intensity, desiccation and salinity on. 7350
  of Botrytis convoluta with various carbon and nitrogen sources. 7445
  of Candida albicans, changes in RNA biosynthesis during. 6574
  of Candida albicans, inhibition of by iron-unsaturated lactoferrin. 2729
  of Candida albicans, in nutritive solutions given parenterally. 2815
  of Candida tropicalis in the presence of alkanes, effect of fatty acids on. 4857
  of Candida tropicalis, respiratory activity during on hexadecane and glucose. 5442
  of Ceramiaceae. 1267
  in Chlorella, respiration during. 609
  of Chlorella, variations in inhibition of by mycotoxins and other toxic substances. 7395
  of Chlorella pyrenoidosa, effect of some herbicides on. 5496
  of Chlorella pyrenoidosa, liberation of organic substances during. 3345
  of Chrysochromulina megacylindra. 7097
  of Cladonia alpestris and C. rangiferina, pattern of. 102
  of Claviceps microcephala, effect of different carbon and nitrogen sources on. 5559
  of Cochliobolus sativus, influence of carbon sources on. 4935

**Growth, contd.,**
- of Cochliobolus sativus, influence of nitrogen and vitamin source on. 3227
- of Curvularia lunata, effect of certain vitamins on. 1596
- of Cystoseira stricta. 3358
- of Dictyococcus cinnabarinus with various carbohydrates. 3567
- of Dictyostelium discoideum in different media, characterization of DNA from. 6566
- of Diplodia natalensis and Botryodiplodia theobromae, effect of carbon nitrogen ratio on. 3467
- of Doratomyces nanus, effect of temperature on. 2732
- of Dunaliela tertiolecta, effects of ammonia and nitrate on. 3443
- of Endomycopsis lipolytica on hydrocarbons. 4358
- Entamoeba histolytica, in monoxenic association in new culture medium. 1581
- of Enteromorpha prolifera v. tubulosa, effect of gibberellic acid, ascorbic acid and indole 3-acetic acid on. 4236
- of entomopathogenic fungi, effect of joint culture on. 5925
- of Entophlyctis confervaeglomeratae. 3210
- of fungal colonies, influence of the width of peripheral growth zone on radial rate of. 77
- of fungal mycelium in forest soil layers. 3818
- of fungal thallus. 83
- of fungi, Cinnamylphenols as inhibitors of. 6703
- of fungi on inorganic medium. 2148
- of Fusarium oxysporum f. sp. vasinfectum. 1963
- of Gonium multicoccum in synthetic media. 7460
- of insect trypanosomatid at 37°C in defined medium. 6739
- in Laminaria. 5821
- of lava, effect of trace elements on. 3568
- lipid fraction of Trichothecium roseum mycelium during the first stages of. 4177
- of Lipomyces starkeyi, effect of some inhibitors of respiration on. 7367
- of Macrophomina phaseoli and Sclerotium rolfsii in soil, effect of soil temperature on. 4262
- of Macrophomina phaseoli, Sclerotium rolfsii and Fusarium solani, effect of soil moisture on. 4261
- of Microsporum. 6751
- in Mortierella ramanniana var. ramanniana M29, effect of changes in the environment on. 2042
- of mould, culture turbidity as measure of. 5253
- of mould, prevention of in sampling holes in rindless cheese. 2793
- of moulds on media prepared without organic nutrients. 2791
- of Mucor prainii sporangiophores. 3212
- of mycelial fungi, production by roots of Calluna vulgaris of a factor inhibitory to. 5503
- of natural and harvested populations of Gigartina stellata in New Hampshire. 5914
- of Ophiobolus graminis, effect of added nitrate on. 959
- of Oscillatoria. 7425
- of Peronospora farinosa f. sp. betae and sugar beet callus tissues in dual culture. 3532
- of Phaeocystis poucheti. 3200, 3357
- of Phaeocystis poucheti, relation to production of extracellular substances. 2477
- of Phycomyces blakesleeanus. 3218
- of Phythium porphyrae, comparative observations on. 7110
- of Phytophthora cactorum, relation to calcium chloride. 2813
- of planktonic blue-green algae. 7095
- in Plasmodium vinckei, synchronization of by photoperiodic rhythm. 1933
- of Plasmodium vinckei chabaudi, induction of by photoperiodic rhythm. 4267
- of Plectonema boryanum in dark on glucose. 6708
- of Pullularia pullulans, effect of cyclamates on. 6676
- of respiratory deficient yeast in continuous culture. 935
- of Rhizoctonia solani in relation to temperature. 6106
- of Rhizoctonia solani in vitro, effect of fungicides on. 6138
- of Rhizopus arrhizus, effect of dimethyl sulphoxide on. 5500
- of Rhizopus nigricans mycelium, study of in relation to nitrogen nutrition. 3571
- of Saccharomyces cerevisiae spores, study of by scanning electron and phase-contrast microscopy. 3968
- in Saprolegnia parasitica, physiological parameters of. 7442
- of Schizoblastosporion starkeyi-henricii. 3270
- of Schizosaccharomyces pombe, and changes in pool and macromolecular components during the cell cycle. 2003
- of Sclerotinia sclerotiorum, effect of carbon source on. 1592
- of Sclerotium rolfsii, effect of pesticides on. 915
- of Septoria, effect of paraquat on. 1553
- in Sphaerobolus. 2050
- of Spirogyra. 1909
- in spring wheat, effect of general yellow rust infection on. 3012
- of Stachybotrys, Hendersonula toruloidea and Aspergillus sydowi, influence of nitrogen source and clay on. 4259
- of Stereum purpureum, influence of age and inoculum quantity on. 1922
- in synchronized Chlorella cells, effect of neomycin on. 3495
- of Synechococcus lividus. 857
- Tetrahymena pyriformis ST, effect of

**Growth, contd.,**
chloramphenicol on. 922
of Tetrahymena pyriformis, effect of ethidium bromide on. 3479
of Tetrahymena pyriformis, effect of isoriboflavin and vyanide on. 2739
of Torulopsis candida on n-alkanes. 6176
of Trichomonas vaginalis. 7454
of Trypanosoma lewisi, in mammalian cell culture media. 4928
of unicellular Cordyceps militaris. 3215
uptake and metabolism of DDT by marine phytoplankton and its effect on. 4651
of yeast in batch and continuous culture systems. 940
of yeasts on hydrocarbons at 37°. 4359
of yeast on methanol as sole carbon substrate. 3575
of yeast, microcalorimetric investigations of in liquid media. 2777
of yeasts, molar yields of in anaerobic batch cultures. 2112
of yeasts, osmotic pressure as limiting factor for. 1278
**Growth (axenic),**
of Gonatobotryum fuscum. 6731
of myxamoebae of Dictyostelium discoideum, extracellular concentrations of cyclic AMP during. 3960
**Growth (axenic vs. monoxenic),** in Entamoeba histolytica, cytochemical comparison of distribution of proteins and lipids in. 2005
**Growth (benthic algal),** measurement of water movement in reference to. 3529
**Growth (cell),** discontinuities in the surface tension of the medium and. 5435
**Growth (combined),** of Saccharomycetes and yeast-like fungi studied by fluorescent antibody method. 937
**Growth (comparative),** of Cyanidium caldarium on nitrate and ammonia at different temperatures. 7348
**Growth (continuously synchronized).** 3546
**Growth (copper limited),** of Torulopsis utilis, mitochondrial effects of. 2077
**Growth (fungal),**
amino acid dehydrogenases of Candida albicans during different periods of. 7272
deproteinized leaf extract as substrate for. 1594
incorporation of labelled precursors into and accumulation of triglycerides and phosphoglycerides at selected stages of. 4168
**Growth (heterotophic),**
of blue-green algae. 606
of Nostoc. 607
**Growth (heterotrophic and autotrophic),** effects on composition of Chlorella sorokiniana. 1176
**Growth (hypertrophic).** 4334
**Growth (linear),** of Torulopsis on n-alkanes. 6752
**Growth (psychrophilic),** of Chaetostylum fresenii, research on. 6090
**Growth (plant),** effect of benomyl on eradication of Ustilago striiformis from Agrostis palustris and on. 7646
**Growth (surface),** method for separating aerial hyphae from. 4910
**Growth (vegetative),** of Fomes and Ganoderma, effect of different carbon sources on. 3572
**Growth conditions,**
effect of fractional composition of microbial protein. 803
in Neurospora crassa, effect on lipid synthesis. 1465
**Growth cycle,** of Cyanidium caldarium. 5231
**Growth and development,** of Clathrospora, effect of external factors on. 1272
**Growth factor,** for wine yeast in anaerobiosis, oleanolic acid as. 3463
**Growth hormones,** effect of application of on photosynthetic $^{14}C$ incorporation in some marine algae. 3444
**Growth hormones (plant),** association with motile and non-motile phases of Cricosphaera. 3393
**Growth inhibition,**
of Debaryomyces nicotianae by antifungal polyene antibiotics, reversal by calcium ions of. 6693
of orange seedlings, importance of Phytophthora and aeration in. 2985
of Tetrahymena pyriformis, mechanism of by steroids. 1532
**Growth interactions,** between Chlamydomonas globosa and Chlorococcum ellipsoideum under different experimental conditions. 3997
**Growth limitation,** of Saccharomyces cerevisiae, regulation of carbohydrate composition under. 5389
**Growth model,** of cultures with 2 liquid phases. 6729, 6730
**Growth parameters,** model for branch initiation in Aspergillus nidulans based on measurements of. 3975
**Growth phase,**
of Dictyostelium discoideum, glycogen synthetase and control of glycogen synthesis in. 3312
in Saccharomyces, relationship between protoplast yield and. 5248
**Growth rate,**
of Aspidiscidae isolated from activated sludge. 4710
of Saccharomyces cerevisiae, photometric method for determining. 3540
**Growth rate (specific),**
of Paramecium caudatum, effect of medium flow rate on. 5486
relationship with energy substrate utilization in Aspergillus nidulans. 377
**Growth regulator CCC,** effect on eyespot disease of winter barley var Pella. 2352

**Growth regulators,**
- effect on Phymatotrichum amnivorum. 2734
- role of in dwarfing symptom of anther smut of sea campions. 1127

**Growth regulators (endogenous),** in Lentinus tigrinus development, character of. 2036

**Growth requirements,**
- of fatty acid desaturase mutants of yeast. 2837
- of Nitzschia actinastroides in batch and chemostat culture under phosphate limitation. 3949

**Growth response,**
- of Alternaria tenuis to different carbon: nitrogen ratios. 5562
- of blue-green algae to sodium chloride concentration. 2707
- of Curvularia lunata to the various herbicides in liquid culture. 4892
- of Phycomyces sporangium. 6499

**Growth response (plant),** to vesicular arbuscular mycorrhiza. 4625

**Growth response (sex-specific),** in yeasts. 1918

**Guanidine (N-methyl-N-nitro-N-nitroso),** different mutagenic action of on selected clones of Candida lipolytica. 3489

**Guanidine derivatives,** of diphenyl sulphone, antimalarial action of. 3518

**Guanidine hydrochloride,**
- effect of on circular dichroism of yeast tRNA. 7376
- yeast pyruvate kinase renaturation after dissociation by. 6593

**Guanine,** in Euglena, cytoplasmic pools of derivatives of. 700

**Guanosine residues (exposed and buried),** in $\mathrm{tRNA}_{\mathrm{I}}^{\mathrm{Val}}$ from yeast. 2572

**Guanosine triphosphate-dependent binding,** of N-acetylphenylalanyl-tRNA to the ribosomes, soluble factor from yeast which promotes. 4143

**Guanosine triphosphate recognition ($T_u$ factor),** inactivation of by terminal oxidation reduction of yeast phenylalanine tRNA. 4755

**Guard cells,** potassium uptake of stimulated by fusicoccin. 4185

**Guatemala,** new records of mushroom stones from. 2421, 5174

**Guava,**
- in South India, Diplodia natalensis causing dry rot of. 7660
- studies on Sclerotium rolfsii isolates from. 3064

**Guinea** (Gulf of),
- Botryocladia from. 5822
- phytoplankton of the Atlantic Ocean south of. 3251

**Guinea pig,**
- amoebic cellulocutaneous invasion by Naegleria aerobica with generalized visceral lesions after subcutaneous inoculation in. 5681
- chemotherapeutic evaluation of clotrimazole in. 1728
- effect of immunosuppression and antigenic competition on the course of infection with Leishmania enriettii in. 4505
- effect of prolonged treatment with antilymphocytic serum on the course of infection with BCG and Leishmania enriettii in. 1659
- effect of inoculation of vegetative myxamoebae of cellular slime moulds in. 1721
- at various times after infection with Leishmania enriettii, histological appearanc of the site of inoculation and lymphnodes of. 6792

**Guinea pig (steroid-treated),** virulence of Trichophyton mentagrophytes in. 6297

**Guinea pig placenta,** transmission of Toxoplasma gondii across. 6317

**Guizotia abyssinica,** extracts of, pigment production of Cryptococcus neoformans grown with. 875

**Gyrocoelia pagollae,** studies on. 6321

# H

**Haemagglutination reaction,** specificity of inhibition of in dysentery and relationship to species of antigen. 4411

**Haemagglutination serological survey (indirect),** and toxoplasma indirect fluorescent antibody among hospital patients in Egypt. 4436

**Haemagglutination test (indirect),**
- for amoebiasis in patients with inflammatory bowel disease. 4929
- with sera of animals experimentally infected with Trypanosoma. 7509
- in the study of Trypanosoma vivax infections of sheep. 364

**Haemagglutinins,** of mycetes, interactions of som mono- and polysaccharides with. 7370

**Haemaphysalis punctata tick,** in Central Europe, ecology, bionomics and behaviour of. 1347

**Haematocrit centrifuge,** evaluation of for the field diagnosis of human trypanosomiasis and filariasis. 1579

**Haematocrit centrifuge technique,**
- detection of low virulent trypanosomes by. 157
- detection of trypanosomes in blood by. 7510

**Haematogenic infections,** of the CNS by Candida albicans, contribution to the pathogenesis of thrombosis in. 1682

**Haematology,** of Trypanosoma congolense infecti in cattle. 1071

**aem-biosynthetic pathway,** of Neurospora crassa, regulation of by δ-aminolevulinate dehydratase. 6590, 7221

**aemoblastosis,** pimaricin in the therapy of mycotic complications in. 5636

**aemocytometer chamber,** for counting rumen protozoa. 367

**aemodynamics (cerebral),** in man, effects of ergot alkaloids on. 4822

**aemogamasus reidi,**
  - role of in the life cycle of Hepatozoon griseisciuri. 6512
  - syngamy and sporogony of Hepatozoon griseisciuri in. 2299

**aemoglobin,** of yeast, oxygen equilibrium of. 1498

**aemoglobin (labelled),** fate of in normal and Plasmodium coatneyi-infected monkeys. 6315

**aemoglobin A$_2$,** in malaria. 1048

**aemoglobin content,** in the haemogregarine-infected erythrocytes of rock-lizards, shifts in. 7602

**aemoglobin and G6PD variants,** distribution of in relation to malaria endemicity in a Togolese population. 5591

**aemoglobin types,** of cattle in East Africa in relation to resistance to East Coast fever. 4521

**aemoglobulins S and C,** and trypanosomiasis. 2866

**aemoglobulins S and C and IgM serum,** relationship observed in areas of trypanic endemia. 2214

**aemogregarines,** of snake, in vitro culture of vector phase of in mosquito cell lines. 5552

**aemolymph,** of Galleria mellonella larvae infected with virus and protozoan pathogens, protein changes in. 4519

**aemolysis,** in malaria, isotopic tracer techniques for studying the dynamics of. 2802

**aemolytic plaque technique,** immunological unresponsiveness induced by cryptococcal capsular polysaccharide assayed by. 6234

**bitat variables,** relative importance of in predicting the distribution of phytoplankton at the ecotone of the Antarctic upwelling ecosystem. 4005

**ir,** of normal dogs and cats, pathogenic keratinophilic fungi to man on. 3601

**ir loop,** use of to isolate unicells in pure culture. 7437

**ir penetration,** ability of various dermatophytes in vitro. 5631

**irdressers,** skin diseases among with particular regard to dysidrosis. 6219

**lide ions,** interaction of with Aspergillus niger, glucose oxidase. 2622

**lide-ion transfer,** in vacuole of Nitella transclucens. 550

**llucinogen,** from Mexican fungi, action on the building of spiders' webs. 2027

**loacetol phosphatases,** affinity labelling of yeast aldolase by. 775

**Halogens,** sensitization of Aspergillus flavus spores to γ-irradiation by. 7387

**Haloquine,** treatment of amoebiasis with. 2911

**Ham (country cured),** identification and aflatoxin production of moulds isolated from. 5783

**Hamster,**
  - effect of cortisone on experimental infections of with Leishmania donovani. 5669
  - experimental cutaneous leishmaniasis in. 7590
  - induction of antiamoebic immunity in with antigen from Entamoeba histolytica axenically grown. 3618
  - intracranial amoebic inoculation in. 3717
  - isolation of Leishmania braziliensis by intraperitoneal inoculation of blood from a reservoir host into. 6874
  - lesions produced in liver of with inoculation of axenically grown Entamoeba histolytica. 3716
  - sporozoite-induced oral route Plasmodium berghei infections in. 1085
  - susceptibility of to Paracoccidioides brasiliensis using different routes of inoculation. 6857

**Hamster (golden),**
  - infected with Plasmodium berghei, effect of antithymocyte serum on. 2302
  - use in epidemiological studies of cutaneous leishmaniasis. 986

**Hamster amoebic liver abscess,** use of as antigen material for fluorescent antibody tests. 3615

**Hamster liver passage,** effect on virulence of Entamoeba histolytica to rats. 2955

**Hamycin,** effect on Drechlarea pedicuellata. 336

**Hand,**
  - dermatomycoses caused by Trichophyton rubrum. 409
  - maduromycosis of due to Phialophora jeanselmei. 6264
  - tinea nigra of. 2891

**Haploembia solieri,** life cycle and ultrastructure of the cephalin of Gregarina embiae parasitic in. 7133

**Haploid Penicillium chrysogenum,** biochemical properties of. 982

**Haploidization (p-fluorophenylalanine-induced mitotic),** in Ustilago violacea. 2180

**Hardwoods,** in West Pakistan, Ganoderma lucidum causing basal stem rot in. 3002

**Hare dung,** Coprophilous ascomycetes on. 3086

**Hartebeest,** isolation of trypanosoma from. 1732

**Harvest,** rotting of fresh figs after. 7016

**Harvesting methods,** effect on fungal populations and aflatoxins in peanuts in Oklahoma. 3111

**Haryana grapes and wines,** nature and occurrence of yeasts in. 1950

**Haute-Volta (Republic of),** case of Coelomomyces infections in Anopheles larvae in. 2942

**Hawaii,**
  - bird's nest fungi of. 4738

- **Hawaii, contd.,**
  - Clathrus oahuensis from. 29
  - Cyathus crassimurus from. 1233
  - environment and distribution of microfungi in a mangrove swamp in. 6555
  - fungitoxicity in soils in. 3804
  - incidence, epidemiology and control of fruit diseases of papaya in. 3772
  - Predaea weldii from. 2445
  - smut diseases in. 4563
  - source of resistance in sorghum to Puccinia purpurea in. 3008
  - sugarcane seedling diseases in. 4576
  - Tenarea tessellatum from. 3138
- **Heart,**
  - complication of transplantation of by Aspergillus infection. 5003
  - Curvularia endocarditis following surgery of. 2234
  - denervation of in Chagas' disease. 4467
  - effect of adenosine, quinacrine and primaquine on. 4526
  - effect of African trypanosomiasis on. 2909
  - effect of pyridoquinolines on. 5062
  - transfusion-induced malaria after open surgery of. 4488
- **Heart surgery (urgent open),** for endocarditis of mitral valve. 5004
- **Heat evolution,** in Scenedesmus, microcalorimetric measurements of. 2478
- **Heat-shock,**
  - characterization of for reduction of nucleic acid content of Candida utilis. 713
  - synchronization of Tetrahymena by. 894
- **Heating systems (residential),** presence of thermophilic Actinomycetes in. 668
- **Hebra's eczema marginatum,** epidemiology of. 4402
- **Hedera helix,** mixed culture of microorganisms in the rhizosphere of. 6378
- **Hedgerow (pecan orchard),** hosts of Cristulariella pyramidalis in. 5103
- **HeLa cells,**
  - cytotoxic effects of culture filtrate of Penicillium purpurogenum and rubratoxin B on. 3386
  - studies on the tissue culture of Toxoplasma gondii with. 1583
- **Helgoland Bight,** Gymnodinium blooms in. 3116
- **Heliantheae,** in North America, additions to autoecious Puccinia on. 7119
- **Helianthus annus,** Fusarium wilt of. 3780
- **Heliothis,** microsporidoses of the hymenopterous parasites of. 7615
- **Helminth ova,** formol-cupric chloride method for the examination of. 4930
- **Helminthiasis (intestinal),** among the population of a pile-built lake village of Ganvie. 4415
- **Helminthosporoside,**
  - from Helminthosporium sacchari. 261
  - in sugarcane leaves infected by Helminthosporium sacchari, runner lesions formation in relation to. 6065
- **Helsinki University,** accessions to the Botanical Museum in. 1845
- **Hemicellulases,** from Aspergillus niger, mode of action of. 748
- **Hemogram,** pattern of in rabbits immunized with Toxoplasma antigen. 2872
- **Henneberg (Wilhelm),** results of research about hemiascomycetes around and after the days of. 1200
- **Hepatitis,** presentation of visceral cryptococcosis as. 4452
- **Hepatitis contagiosa canis,** in a bluefox farm. 1750
- **Hepatocytes,** patterns of antinuclear antibody fluorescence in. 7512
- **N-Heptadecane,** separation of ethylene glycol fatty acid esters from Candida tropicalis 'K' grown on. 4172
- **Herbaria (European),** notes on type specimens of blue-green algae in. 1834
- **Herbarin,** from Torula herbarum, isolation and characterization of. 848
- **Herbicide,**
  - action of on the microflora of cultivated soils. 1174
  - effect on the growth of Chlorella pyrenoidosa. 5496
  - effect on soil microflora. 5152
  - side effects on Erysiphe graminis and Cercosporella herpotrichoides on wheat. 1108, 1757
  - tolerance to high concentrations and degradation of by soil microorganisms. 4619
- **Herbicide (urea),** depression of carbohydrate in marine algae by. 1546
- **Herbicide (various),** growth response of Curvularia lunata to in liquid culture. 4892
- **Herbicide transformation,** ecology of. 1551
- **Hermann-stadter Dauerwurst,** inoculation of with Penicillium expansum. 535
- **Herring microorganisms,** influence on fat-oxidation. 4170
- **Heterakis gallinarum,**
  - ring-necked pheasant as host for. 5047
  - structure and development of Histomonas meleagridis in the male reproductive tract of. 1886
- **Heterakis gallinarum larvae,** effect of transfer of on retention and development of the heterakid and liberation of Histomonas and Parahistomonas. 6302
- **Heterocyst,**
  - of Anabaena, absence of photosystem 2 in. 2687
  - of Anabaena, relationship between age of culture and occurrence of pigments of photosystem II of photosynthesis in. 5423, 6069
  - in Anabaena cylindrica. 4128
  - of Anabaena cylindrica, differentiation and nitrogenase activity of. 7094

**leterocyst, contd.,**
  in Nostoc phycobiont of Peltigera canina, frequency of. 3919
**leterocyst (lack of),** in Anabaena flos-aquae filaments, nitrogenase in. 150
**leterocyst formation,**
  in Anabaena. 2476
  in Anabaena doliolum, physiology of. 4696, 4868
**leterodera schachtii,** effects of Aphanomyces cochlioides and Pythium ultimum alone and as complexes with on sugarbeet. 1160
**leterokaryon,**
  between auxotrophic mutants of Aspergillus niger, citric acid synthesis by. 979
  formation of by fusion of anucleate and nucleated mammalian cells. 7313
  obtained by nuclear transfer in mononucleated amoebae, viability of. 403
**leterokaryosis,**
  in Metarrhizium anisopliae. 100, 3913
  in Monilinia fructigena wild strs. 6185
**leterokaryosis (inter-isolate),** in Thanatephorus cucumeris. 6505, 6506
**leterose substance,** in the stems of carnations infected with Phialophora cinerescens, appearance of. 4593
**leterothallic Mortierella elongata,** zygospore formation by. 3211
**leterothallism (bipolar),** in Fomes cajanderi. 91, 3158
**leterotrophic conditions (artificially produced),** reactions of the pigment system of Euglena under. 6087
**leterotrophic microorganisms,** in freshwater ecology of. 4036
**leterotrophic organisms,** growth of in mixed culture with autotrophic organisms. 6519
**leterotrophy,** by plankton in 3 lakes of different productivity. 4934
**leterozygote,**
  in Dictyostelium discoideum, and drug resistance. 385
  of Paramecium aurelia, allelic modulation in. 1633
  of Tetrahymena, late-determined gene in. 2186
  of Tetrahymena pyriformis, use in mutant selection. 2187
**leterozygote (stable haploid),** of Dictyostelium discoideum, selection of. 4374
**leterozygous expression,** in intraspecific recombinants of Saccharomyces cerevisiae. 2835
**leterozygous Saccharomyces cerevisiae,** genetic mechanisms of rare matings of. 4949
**ievea brasiliensis,** control of black thread in with Difolatan. 498
**lexachlorobenzene,** use of for seed treatments. 3071
**lexachlorophene preparations,** survival of gram-negative bacilli in Candida albicans in. 2099
**Hexadecane,**
  content of thiamine in cells of Candida yeasts growing on. 1499
  respiratory activity of Candida tropicalis during growth on. 5442
**Hexin,** production of by Streptomyces. 4889
**Hexobarbital,** effect of Poly I, Poly C and endotoxins on toxicity of. 2940
**Hexokinase,**
  effects of different substrates on activity in Euglena gracilis. 374
  of yeast, computer simulation studies with. 2636
  of yeast, dissociation of under the influence of substrate. 5332
  of yeast, effect of insulin and zinc on binding of with hydrocortisone. 1529
  of yeast, multiple forms of in yeast cells. 739
  of yeast, purification and subunit interactions of. 6014
  of yeast, stimulation of by catecholamines and related compounds. 7257
  of yeast, subunit structure and hybridization of isoenzymes. 776
**Hexokinase P-II,** of yeast, application of equilibrium exchange kinetics to study of kinetic properties of. 6016
**Hexokinase specificity,** of yeast, use of deoxy-fluoro-D-glucopyranoses and related compounds in the study of. 6018
**Hexose,**
  of Aspergillus nidulans, properties of transport systems of. 815
  in mammalian cells, inhibition of the transport of by cytochalasin B. 7311
**Hexose uptake (active),**
  of Chlorella vulgaris, respiratory increase and. 7279
  of Chlorella vulgaris, unusual features of. 7278
**Hibiscus sabdariffa,** occurrence of powdery mildew of in Egypt. 3760
**Highmoritis (chronic),** microflora in and sensitivity to antibiotics and chinozol. 5021
**Hikkaduwa,** seasonal variation of alginic acid content in Sargassum cervicone of. 1493
**Hill activity (2,6-dichlorophenol indophenol),** of Anabaena cylindrica membrane fragments, stabilizing effect of various media on. 2108
**Hinosan,**
  metabolism by mycelial cells of Pyricularia oryzae. 331
  mode of action of. 7412
**Hippelates collusor,** susceptibility of to entomogenous bacteria and fungi. 5659
**Hippelates pusio,** infected with Herpetomonas muscarum, histological observations on the larvae of. 7589
**Histamine,** role of in the pathogenesis of ringworm infections. 5665
**Histidine,** binding of to tobacco mosaic virus RNA.

**Histidine**, contd.,
  6611
**Histidine uptake**, in Neurospora crassa and normal and mutant transport systems. 5376
**Histidinol dehydrogenase**, immunological comparisons of. 418
**Histocytosis**, treatment of. 1697
**Histolyticin**, from Entamoeba histolytica, skin response of normal subjects to. 4428
**Histomonas meleagridis**, immunological analysis by gel diffusion of effects of prolonged cultivation of. 420
**Histomoniasis**, in turkeys, effect of cupric sulphate on prophylactic efficacy of 2-acetylamino-5-nitrothiazole, nifursol and ipronidazole against. 4504
**Histone**, in Tetrahymena cell cycle, changes in. 2655
**Histoplasmin sensitivity**,
  in Ceylon. 6235
  in McGill university students. 984
**Histoplasmosis**,
  in bats. 5662
  case report with adrenal insufficiency. 1011
  combined field and laboratory epidemic of. 6826
  epidemiology and geographical distribution of. 2189
  lymphocyte-mediated cellular immunity in. 997
  oral manifestations of. 3627
  regional peculiarities of. 5634
  a review and 3 cases in Great Britain. 3626
  successful defence against in hypogammaglobulinaemia. 5015
  survey of zoo aviaries for. 1636
**Histoplasmosis (African)**,
  complicating pregnancy. 2236
  cutaneous osseous, ganglionic and pulmonary form of. 6246
  due to Histoplasma duboisii. 2235
**Histoplasmosis (chronic pulmonary)**, amphotericin B dosage for. 5628
**Histoplasmosis (disseminated)**,
  and pneumocystis pneumonia associated with Hodgkin's disease. 7576
  results of long-term follow-up. 4996
**Histoplasmosis (earth day)**, new type of urban pollution. 5016
**Histoplasmosis (experimental)**, in Cynomolgus monkeys, pathogenesis and immunological aspects of. 6229
**Histoplasmosis (experimental canine)**, and blastomycosis. 1725
**Histoplasmosis (focalized pulmonary)**, 58 cases of. 5014
**Histoplasmosis (imported African)**, due to Histoplasma duboisii, pathology of. 7549
**Histoplasmosis (ocular)**,
  case of. 429
  light coagulation in. 428
**Histoplasmosis (presumed ocular)**,
  histoplasmin skin test sensitivity in cases identified during a community survey. 5626
  patterns of peripheral and peropapillary scarring in persons with nonmacular disease. 5627
**Histoplasmosis (progressive disseminated)**, 26 cases of. 6262
**Hodgkin's disease**,
  case report with cryptococcosis and toxoplasmosis. 2933
  pneumocystis pneumonia and disseminated histoplasmosis in association with. 7576
**Holdfasts**, in thraustochytriaceous fungi and Labyrinthula, ultrastructure of. 5190
**Holocene**, limit changes of some specific diatomical seaweeds of the White Sea in. 7147
**Homogenizer (industrial)**, release of enzymes from bakers' yeast by disruption in. 3328
**Homograft (aortic)**, Aspergillus fumigatus endocarditis of. 430
**Homokaryon (A-mutant)**, of Schizophyllum commune direct microscopic studies of formation of. 1282
**Homothallic yeast**, genetic analysis of the 'rough colony' in. 7484
**Honey (Brazilian honeydew)**, microscopic components of. 2413
**Honey (Indian)**, Schizosaccharomyces slooffiae from. 4644
**Honeydew**, some ecophysiological relationships between Chrysopa and. 1334
**Hong Kong**,
  aflatoxins in market foods and foodstuffs of. 4439
  occurrence and toxicity of a red tide caused by Noctiluca scintillans in the coastal waters of. 6524
**Homothallism instability**, in Saccharomyces cerevisiae var. ellipsoideus, genetics of. 4379
**Hop**, effect of Streptomycin on downy mildew of. 2322
**Hormonal changes**, of the vaginal environment in the treatment of vaginitis, effect of. 4471
**Hormonal regulation**, of agglutinability of Saccharomyces cerevisiae type cells. 5247
**Hormonal status**, influence of on the selective receptivity of the vaginal epithelium towards various microbes. 6274
**Hormone (fungal sex)**, synthesis of and determination of absolute stereochemistry of. 3396
**Hormone (phyto)**, of Lithothamnion calcareum, study of. 5420
**Hormone (sexual)**, of Mucorales, synthesis of. 856
**Hormone (sex)**, in Neurospora crassa. 1605
**Horse**,
  aetiology of chronic pulmonary disease in. 5664
  chemotherapy of babesiosis in. 3720

**Horse, contd.,**
- clinicopathological study on experimental Trypanosoma brucei infections in. 5050, 5673
- Eimeria leuckarti in. 684
- infected with Trypanosoma evansi, therapeutic activity of Mel B diminazene and Te 85 in. 3712
- maduromycotic mycetoma in. 6295
- nitrogen and glucide metabolism of Cycloposthium of the caecum of. 4148
- phycomycosis in. 5663
- pulmonary emphysema of caused by broncho-pulmonary mould allergy. 7582
- subcutaneous phycomycosis and swamp cancer in. 2936
- Vahlkampfia lobospinosa in. 4051

**Horse dung,** Coprophilous ascomycetes on. 3086

**Hospital,**
- asthma admission rates relating to New Orleans asthma. 410
- impact of mycotic diseases in. 6778
- of the Mexican Institute of Social Security, frequency of amoebic liver abscess in. 3604

**Hospital-acquired infections,** use of marginal punched data cards in surveillance of. 4335

**Hospital practice (medical),** significance of imported disease in. 6223

**Host cell penetration,** by Toxoplasma gondii, Besnoitia jellisoni and Sarcocystis, quinine inhibition of. 7424

**Host parasite relations,**
- in Pipitocephalis virginiana infection of Choanephore cucurbitarum. 2321
- role of iron in. 1524

**Host pathogen compatibility,** common antigenic determinants as a possible regulator of. 5599

**Host plant material,** effect of on germination of teliospores of Puccinia carthami. 7118

**Host specificity,** of Eimeria contorta. 2297

**Hot springs,** bacteriochlorophyll in gliding filamentous prokaryotes from. 276

**Howard Mould Count,**
- aspects of. 2129
- method of preparing dehydrated tomato powder for examination by. 3552
- method for preparing garlic powder for examination by. 3553

**Hoyer's mounting fluid,** for permanent whole-mounts of microfungi. 6734

**Hulle cell,** of Aspergillus, effect of light on. 2728

**Human,**
- incidence of sleeping sickness in in Tanzania. 1646
- infected with Plasmodium falciparum comparison of malarial antigens from blood of. 4984
- isolation of Prototheca from. 2221

**Humic acids,**
- biosynthesis of during decomposition of wheat straw by soil fungi. 4624
- formation of and turnover of nitrogen during preparation of compost and growth of Agaricus bisporus. 3087

**Humic substances,**
- from decomposed marine algae, chemical characteristics of. 5143
- formation of. 3841
- influence of clay minerals on formation of. 5145
- influence of clay minerals on formation of by Epicoccum nigrum and Stachybotrys chartarum. 5769

**Humidity,**
- effect on development and treatment of Cercospora in banana. 891
- effect of during darkness on the transfer of assimilates from cucumber leaves to sporangia of Pseudoperonospora cubensis. 6091
- effect on Fucus virsoides. 3447
- effect on survival of fungal sclerotia. 310
- infection of wheat seedlings by Septoria nodorum in relation to. 2379
- influence of on outbreak of Scleroderris lagerbergii. 6920
- prevention of spread of yellow rust of corn by. 1151
- relationship to concentrations of airborne sporangia of Pseudoperonospora humuli. 2489

**Humidity (low),** effect on germination of Phyllactinia corylea conidia. 82

**Humidity (relative),** effect on survival of Candida albicans and other yeasts. 886

**Humus (Jack pine),** effect of fertilizers and Simazine on activity of microorganisms in. 1805

**Humus material,** influence of clay minerals on formation of by various soil fungi. 4263

**Humus production,** in East African soils after drying and moistening. 7003

**Hungary,**
- diatoms of the Lower Pannon arising from the neogenic pool of Csakvar in. 3995
- euglenophytes and pyrrophytes of the Theiss in. 3131
- importance of parasitic infections in, in relation to meat inspection. 7710
- physiological specialization of Erysiphe graminis DC f. sp. tritici at Martonvasar in. 5718
- systematic and ecological studies on flies attacking Agaricales in. 6546

**Hyaena,** isolation of trypanosoma from. 1732

**Hyaluronidase activity,** of Entamoeba histolytica, comparative characteristics of. 2641

**Hybrid,** in Entamoeba histolytica. 404

**Hybrid (heterospecific),** of Amoeba. 5451

**Hybrid cell,** formation of by fusion of anucleate and nucleated mammalian cells. 7313

**Hybrid segregations (di- and tri-),** in Chalmydomonas reinhardtii, analysis of interaction of

**Hybrid segregations (di- and tri-), contd.,**
  mutants for chlorophyll deficiency and light sensitivity in. 4943
**Hybridization,**
  of distillery and baker's yeast races. 6766
  of formae speciales of Puccinia graminis, role of wild and cultivated grasses in. 6935
  of mitochondrial tRNA and mitochondrial DNA in petite mutants of yeast. 4081
  of mitochondrial tRNA with mitochondrial and nuclear DNA of grande yeast. 4080
  between Puccinia and evolutionary implications. 3589
**Hybridization (DNA/RNA),** of Tetrahymena pyriformis, participation of rare DNA templates in. 3595
**Hybridization (molecular),** in Tetrahymena pyriformis, resolution of some component classes of complex RNA by. 719
**Hybridization (somatic),** basis in rust fungi. 395
**Hybridization study,** with yeast mitochondrial RNAs. 6570
**Hydergine**$^R$, effects of on cerebral haemodynamics in man. 4822
**Hydra (green),** benefit to symbiotic zoochlorellae from feeding by. 5554
**Hydrocarbon,**
  from Candida guilliermondii grown in paraffin containing media, localization of. 4216
  cooxidation in microbial systems. 293
  growth of Endomycopsis lipolytica on. 4358
  growth of yeasts on at 37°. 4359
  fatty acid composition of Cladosporium resinae grown on. 827
  nutritive value for chickens of yeast grown on. 536
  pattern of incorporation of labelled carbon into free amino acids and proteins during yeast cultivation on. 7273
  safety evaluation of yeast grown on. 2409
  as a source of single-cell protein. 6177
  utilization of by Saccharomyces fructum. 5436
**Hydrocarbon (aliphatic),** of fungi. 4227
**Hydrocarbon (chlorinated),** in Chlorella pyrenoidosa, accumulation and distribution of. 248
**Hydrocarbon (heavy),** synthesis of during yeast grown on low-molecular n-alkanes. 6653
**Hydrocarbon (polycyclic aromatic),** transfer from cell to cell in yeast population. 1473
**Hydrocarbon constituents,** of the surface and wall lipids of some fungal spores. 6629
**Hydrocarbon containing media,** effect of organic acids on growth of Candida on. 887
**Hydrocarbon fermentations,** using Candida lipolytica. 3426, 3427
**Hydrocarbon fermentations (liquid),** measurement of yeast concentrations in. 6680
**Hydrocarbon substrates,**
  action of monocarboxylic acids on Candida tropicalis growing on. 2147
  complete extraction and separation of lipids from yeast grown on. 4815
**Hydrocortisone,**
  effect of insulin and zinc ions on binding of yeast hexokinase with. 1529
  effect of on skin lesions, antibody titres and parasitemia in Trypanosoma gambiense-infected rabbits. 5053
**Hydrodynamic differences (bio),** between plankton and nekton. 4728
**Hydrodynamic method,** for separation of biogenous and mineral components of marine sediments 7456
**Hydrogen,**
  liberation of by Trichomonas vaginalis during anaerobic culture. 4343
  in Trichomonas foetus, mechanism of formation of. 1501
**Hydrogen** $^1$ **and** $^2$, from Synechococcus lividus, extraction and purification of. 4129
**Hydrogen cyanide,** in psychrophilic basidiomycete cultures, amino acid source of. 802
**Hydrogen ion,** in Euglena gracilis chloroplasts, evidence for a 2-directional transport of. 27
**Hydrogen ion concentration,** in Achlya flagellata, variations in latent phase under the influence of. 2109
**Hydrogen ion influx (net),** in Nitella clavata. 4237
**Hydrogen peroxide (extracellular),** production of by wood-rotting fungi. 4226
**Hydrogen photoproduction,**
  in adapted Scenedesmus, kinetics of. 1492
  by algae, mechanism of. 7326, 7327
**Hydrogen sulphide,**
  effect of yeast and type of sulphur compound on production of. 5434
  formation of in watered oil collectors of various type. 5765
  produced by yeast, effect of leucine on. 868
**Hydrogenase,** from nitrogen-deficient Ankistrodesmus braunii. 721
**Hydrogenomonas,** effect of the automatic station Zond-8 flight on cultures of. 2071
**Hydroids,** in South Australia, association with algal substrate. 3252
**Hydrolase,** study of the cytochemical behaviour of in different growth phases of fungi. 6612
**Hydrolase (acid),**
  in blood stages of malaria parasites, cytochemical observations on. 5361
  from Saccharomyces carlsbergensis, subcellula fractionation of particles containing. 3322
**Hydrolase (adenine amino-),** Schizosaccharomyces pombe, study of. 1403
**Hydrolase (allophanate),** as components of ATP: urea amidolyase in Saccharomyces cerevisia 4777
**Hydrolase (β-glucan endo),** from Schizosaccharomyces pombe. 4106

**Hydrolase (orsellinate depside),** from Lasallia pustulata, purification and properties of. 186
**Hydrolase (peptidyl-peptide),** of Aspergillus flavus. 1408
**Hydrological conditions,** of inshore and offshore waters off Colombo, in relation to phytoplankton in. 1308
**Hydrological regime,** plankton of the western tropical Atlantic as related to specific features of. 5939
**Hydrolysates,** fate of iodides fixed by various marine algae and determination of iodized amino acids in. 7266
**Hydrolysis,**
  of arbutin by some fungi. 5396
  of ochratoxins A and B, comparative rates of in vitro. 6635
  of peptide bonds of the oxidized B-chain of insulin by Endothia parasitica protease. 4097
  of starch from different plant sources by fungal enzymes. 4114
  of substrates by the glucoamylase of Aspergillus awamori. 6003
  of walls and formation of sphaeroplasts in Mucor rouxii. 7396
**Hydrolysis (enzymatic),** in growing yeast cells, studies on the rates of. 6686
**Hydrolytic enzymes (extracellular),** from plant pathogenic fungi, production of. 5341
**Hydroperoxides (ilinoleic-acid),** decomposition of by herring microorganisms. 4170
**Hydrophobic structures,** of yeast pyruvate decarboxylase, heterogeneity of. 182
**Hydroxamic acid,** of natural origin. 4832
**Hydroxamic acid (cyclic),** role of in monogenic resistance of maize to Helminthosporium turcicum. 2368
**Hydroxy acids (long chain),** from Nocardia corallina, fractionation and analysis of. 290
**2-Hydroxy-4 methoxy-6-methylphenyl 3-hydroxy-5-methylphenyl ether,** structure and synthesis of. 5447
**3-Hydroxy-3-methylglutaryl-CoA reductase,** in Saccharomyces cerevisiae, subcellular localization of. 735
**18-Hydroxyandrost-4-ene-3, 17-dione,** incubation of Aspergillus niger with androst-4-ene-3, 17-dione for production of. 823
**4-Hydroxycoumarin,** spp differences in the anti-coagulant activities of. 5043
**Hydroxykynureninase,** in Neurospora crassa, evidence for activities of. 731
**Hydroxylamine,**
  effect of on the growth and synthesis of protein and amino acids in Aspergillus niger mycelium. 6173
  identification of genetic alteration in purple mutants of Neurospora crassa induced by. 897
  in Porphyridium cruentum, action of. 1433
**Hydroxylamine hydrochloride,** effect on Saccharomyces cerevisiae yeast cells in different phases of evolution. 3484
**Hydroxylase (L-kynurenine 3),** in Saccharomyces cerevisiae, regulatory function of for the biosynthesis of pyridine nucleotides. 1983
**Hydroxylase inhibitor (dopamine β),** production of by Gloeophyllum striatum and its identity with oosponol. 7304
**Hydroxylase reaction,** substrate specificity of. 2596
**Hydroxylation,**
  of 17 α-methylestradiol at the 4 and 5 position by Aspergillus flavus. 3375
  of 1,2-α-oxotetramethylene ferrocene by Sporotrichum sulfurescens. 287
  of carbaryl by soil fungi. 4225
**11 β-Hydroxylation,** of progesterone. 3431
**14 β-Hydroxylation,** by Cercospora melonus, of androstane derivative. 826
**18-Hydroxylation,** of steroids. 823
**Hydroxylation (microbiological),** of 5 α 6 α-epoxy-3 β-hydroxy-5α-pregnane-20-ones with further transformations. 4173
**Hydroxylation (microbial),** of 17 α, 21-dihydroxy-16-methylene-4-pregnene-3, 20-dione. 2022
**Hydroxylation system (enzyme-free),** mutagenic effect induced in Saccharomyces cerevisiae by the breakdown products of 1- and 2-naphthylamine formed in. 5491
**Hydroxylation system (in vitro),** mutagenicity of dimethylnitrosamine and diethylnitrosamine for Saccharomyces in. 1537
**Hydroxylysine,** effect on the biosynthesis of lysine in Saccharomyces. 1522
**4-Hydroxymellein,**
  from Aspergillus ochraceus. 2030
  production of by Aspergillus ochraceus. 6636
**p-Hydroxymercuri-benzoate,** differential reactivity of the sulphydryl groups of yeast aldolase towards. 6017
**4-Hydroxyochratoxin,** from Penicillium viridicatum, isolation and structure of. 847
**Hydroxyphaseollin,** as antifungal compound from soybeans. 3750
**6α-Hydroxyphaseollin,** induction by Phytophthora megasperma var. sojae in soybean hypocotyls. 832
**Hydroxystilbamidine,** ultrastructural alterations of Trypanosoma cruzi kinetoplast induced by interaction of with kinetoplast DNA. 1557
**2-Hydroxystilbamidine,** treatment of blastomycosis with. 6249
**Hydroxystilbamidine isethionate,** in the treatment of pulmonary mycoses. 2241
**5-Hydroxytryptamine,**
  from Candida albicans, production of. 206
  effect on survival rate and glutathione quotient in chicks after infection with Eimeria necatrix. 1083

- **Hydroxyurea,** action of on Anacystis nidulans and Anabaena doliolum. 4869
- **Hymenium,** of Agaricus bisporus, metabolism of $^{14}$C-arginine in. 6619
- **Hymenopterous parasites,** of Heliothis larvae, microsporidoses of. 7615
- **Hyperalimentation,** monilia septicaemia associated with. 2231
- **Hypersensitivity,**
  - in allergic bronchopulmonary aspergillosis, evaluation of tests for. 5002
  - pulmonary diseases due to. 1654
  - relationship to extracts of Candida albicans. 999
- **Hypersensitivity (antibody and cell mediated),** to trypanosome antigens in rabbits infected with Trypanosoma congolense, tests for. 6799
- **Hypersensitivity (cell-mediated),** in rabbits infected with Trypanosoma. 1660
- **Hypersensitivity (defective delayed),** with familial moniliasis and ACTH deficiency. 7544
- **Hypersensitivity (delayed),**
  - to Candida albicans in man demonstrated by in vitro. 4916
  - to latent intracellular toxoplasmosis in man, simplified in vitro method for measurement of. 7457
- **Hypersensitivity (immediate and delayed),** incidence after Candida albicans in denture stomatitis. 1679
- **Hypersensitivity pneumonitis,** discussion of. 2228
- **Hypertrophic growth.** 4334
- **Hyphae,**
  - and autoradiographic study of growth of. 618
  - of Coprinus lagopus, effect of 2-deoxy-D-glucose, D-glucosamine and L-sorbose on the growth of. 6098
  - of Fusarium oxysporum, study by freeze-etching. 589
  - of Phytophthora palmivora, structure and differentiation of cell wall of. 1270
  - of Pythium, continuity between endomembrane components in. 1216
  - responses of to soil fungistasis. 2761
  - of Rhizoctonia solani, effect of carboxin on solute leakage from. 2105
  - of Schizophyllum commune, microscopic study of clamp connection formation in. 632
  - of sooty mould Ascomycetes, morphology of in taxonomy. 1224
  - of Thamnidium elegans, anomalies in caused by aflatoxin $B_1$. 4287
  - of Trichoderma, interaction with other fungi and dual culture. 1959
  - of Trichoderma, scanning electron microscope study of. 594
- **Hyphae (aerial),**
  - of Candida albicans, formation of. 634
  - method for separating from surface growth. 4910
- **Hyphae (ascogenous),** in Hypoxylon microplacum, observations on. 80
- **Hyphae (growing),** of Schizophyllum commune, direct microscopic studies of clamp connection formation in. 1282
- **Hyphal ramification,** in Rhizoctonia solani, distribution of. 4687
- **Hyphal wall,**
  - in Aspergillus nidulans, synthesis of. 94
  - of Schizophyllum mutants with disrupted nuclea migration, R-glucanase activity in and susceptibility of to degradation. 6598
- **Hyphal wall surface,** of Schizophyllum commune, chemical and morphological characterizatio of. 7074
- **Hyphantria cunea,** effects of simultaneous virus and microsporidian infections on larvae of. 7614
- **Hypocotyls,**
  - of melon, infected with Colletotrichum lagena-rium, kinetic study of polysaccharide changes in the cell walls of. 3776
  - of sunflower infected with Sclerotinia sclerotorum, changes in cell membrane permeability in. 4549
- **Hypolimnion,** of a eutrophic pond, effects of saprobic conditions on some ciliated Protozoa in. 1353
- **Hypoparathyroidism,** with Addison's disease and candidiasis, case report of. 7538
- **Hypophthalmichthys mollitrix,** protozoan diseases of the fry of. 1079
- **Hyposensitization (mould),** in rhinitis. 5635
- **Hyposensitization (specific),** by inhalation antigens. 4972
- **Hypothyroidism,** in mice experimentally infected with Trypanosoma cruzi, effect of 6-propyl-thiouracil-induction of. 6304
- **Hypoxanthine,** in Candida guilliermondii, transformation of. 2653

**I**

- **Ibadan,** epidemiology of urethritis in. 6220
- **Iceland,** aquatic fungi of. 4020
- **Iceland (Southwest),** density of benthic algae along a littoral rocky slope in. 1943
- **ICR-170,** induction of cycloheximide-resistant mutants in Saccharomyces cerevisiae with. 4276
- **Identification (simplified),** of yeasts by serologica technique. 6721
- **IgM (low molecular weight),** in serum and cerebrospinal fluid of patients with

**gM (low molecular weight), contd.,**
  Trypanosoma gambiense infection. 4977
**gM serum,** relationship with haemoglobin S and C in areas of trypanic endemia. 2214
**koma-Serengeti area,** endemicity of Rhodesian sleeping sickness in. 1647
**le-Ife,** ion transport studies on phytoplankton on fishpond at. 655
**lex paraguariensis,** microbial flora of. 2416
**lludin S,** from Clitocybe illudens, fulvenes derived from. 238
**llumination,** sporulation in the Aspergillus glaucus group in response to. 1283
**llustrations,** in parasitology. 6160
**mago moult,** of the yellow-necked termite, life cycle of Hexamastix termitis during. 3229
**midazole (1(o-chloro-α-α-diphenylbenzyl)),** chemotherapeutic evaluation of. 1728
**midazole derivative,** effect on Drechlarea pedicellata. 336
**midazolidinone (1-(5-nitro-2-thiazolyl)-2),** effect of on experimental Schizotrypanum cruzi infection in mice. 5672
**, 3'-bis 2-Imidazolin-2-yl carbanilide dihydrochloride,** treatment of equine babesiosis with. 3720
**mide compounds (cyclic),** antimicrobial activity of. 2750, 4885
**midocarb,**
  activity of against Babesia infections of cattle. 3722
  prophylactic effect against Babesia infections of cattle. 1077
**mmersions,** zonation of algal belts in connection with frequency and duration of. 5277
**mmune guinea-pig serum,** anti-leishmanial activity of. 6791
**mmune mechanism,**
  in vivo, reduction in the ability of trypanosoma brucei to react with antibodies after long exposure to. 4974
  in mice, accelerated clearance of Plasmodium berghei sporozoites from blood as part of. 5061
**mmune population (semi),** in northern Nigeria, treatment of Plasmodium falciparum infections in. 6280
**mmune response,** to sheep erythrocytes in rat infected with Plasmodium berghei, cytodynamic study of. 3621
**nmunity,**
  of bean towards Colletotrichum lindemuthianum. 6954
  to East Coast fever, duration of. 5705
  induced in albino rats by non-water soluble fraction of Trypanosoma lewisi against infection from homologous str. 3613
  induction of in malaria by sporozoite in normal salivary gland. 6804
  to malaria in the mouse, cellular transferance of. 425
  to Plasmodium berghei in rats. 2869
  sources of from race 5 and 6 of the lettuce downy mildew fungus. 2315
  to Trypanosoma lewisi, duration of in rats. 4512
  to Trypanosoma evansi, study of following drug cure of infection. 1005
**Immunity (acquired),**
  of buquinolate-medicated chickens to Eimeria tenella infection. 3732
  in mice infected with Plasmodium berghei, effect of thymectomy on. 7609
  to Plasmodium berghei yoelii in mice. 2217
**Immunity (active and passive),** in experimental toxoplasmosis. 1668
**Immunity (adoptive),** to Plasmodium berghei, transfer of. 2216
**Immunity (antiamoebic),** induction of in hamster with antigen from Entamoeba histolytica axenically grown. 3618
**Immunity (auto),** in experimental Trypanosoma congolense infections of rabbits. 4976
**Immunity (cell-mediated),** in Herpesvirus hominis infections. 3611
**Immunity (cellular),**
  migration inhibition in phagocytosis in vitro. 1656
  studies on with axenic amoebic antigen and its fractions. 3617
**Immunity (lymphocyte-mediated cellular),** in histoplasmosis. 997
**Immunity (passive),** study of in Trypanosoma evansi infection. 2864
**Immunity (specific and non-specific),** during malaria in rats infected with Plasmodium berghei, effect of splenectomy on. 6802
**Immunization,**
  to Eimeria maxima, cross infection in chickens with Eimeria brunetti. 423
  with irradiated Babesia rodhaini, antigenic variation demonstrated by. 1007
  by irradiated Eimeria acervulina. 4430
  of mice with virulent trypanosomes in a diffusion chamber. 2865
  of monkeys against Plasmodium cynomolgi by X-irradiated sporozoites. 4985
  against Toxoplasma gondii with killed vaccines. 4433
  with Toxoplasma antigen, pattern of hemogram in rabbits after. 2872
**Immunoallergic test,** in dermatomycosis. 1003
**Immunochemical studies,** of Trichophyton mentagrophytes. 4426
**Immunocytochemical localization,** of alginic acid in Fucus distichus. 5387
**Immunodeficiency,**
  in chronic mucocutaneous candidosis. 5596
  Eosinophilia with Pneumocystis carinii pneumonia and. 4492
**Immunodeficiency (combined),** infant with. 1720

**Immunodeficiency (gastrointestinal),** relation of giardiasis to abnormal intestinal structure and function in. 4464
**Immunodiagnosis,** of parasite diseases. 365
**Immunodiffusion test,**
  comparison with latex agglutination test in the diagnosis of systemic candidiasis. 4970
  in serodiagnosis of Aspergillosis. 4420
**Immunodiffusion test (quantitative agar-gel),** and indirect fluorescent antibody for the serological diagnosis of paracoccidioidomycosis. 7505
**Immunoelectroosmophoresis,** diagnostic mycoserology by. 2130
**Immunoelectrophoresis,**
  for the diagnosis of amoebiasis. 1663
  study of the enzyme complex of Aspergillus oryzae. 752
**Immunofluorescence,**
  comparative study of the antigens of winemaking yeasts by. 7507
  identification of Pneumocystic carinii by. 368
  serological survey of Besnoitia besnoiti infection in Israel by. 7595
**Immunofluorescence (indirect),** frequency of toxoplasma infestation of the dog in Toulouse by. 4990
**Immunofluorescence investigations,**
  in nontropical amoebic liver abscess, significance of. 6839
  in patients with farmer's lung. 4419
**Immunofluorescence test,**
  for the diagnosis of amoebiasis. 1663
  for diagnosis of Entamoeba histolytica. 1662
  suitability of for large-scale application to malaria. 4932
**Immunofluorescence test (indirect),** comparison of new antigen from amastigotes of Trypanosoma cruzi and antigen from epimastigotes for the diagnosis of Chagas' disease by. 1661
**Immunofluorescence test (malarial),** use of fibre-optic system in. 2141
**Immunogen,** of a single variant of Trypanosoma brucei brucei, properties of. 6798
**Immunogen (flagellate cytoplasmic),** of Leishmania donovani, partial characterization of. 6237
**Immunoglobulin-deficient,** and normal human subjects, intestinal microflora of. 5929
**Immunoglobulin level,** and antibody to Candida albicans in human cervicovaginal secretions. 6231
**Immunoglobulins,** of Trichophyton mentagrophytes, isolation and immune response of. 4426
**Immunological analysis,** by quantitative fluorescent antibody methods of effects of prolonged cultivation on Histomonas meleagridis. 6236
**Immunological aspects,** of bovine trypanosomiasis. 1004
**Immunological behaviour,** of children's neoplasms, serological study of. 1012
**Immunological competence,** in children, screening of. 6233
**Immunological mediated protection,** of Trypanosoma congolense-infected mice by polyribonucleotides. 3612
**Immunological method,**
  in diagnosis of protozoan diseases in man and domestic animals. 6807
  for the identification of phytoplankton. 5593
**Immunological reactions (specific and nonspecific),** in experimental coccidioidosis. 2956, 7503
**Immunological reconstitution,** treatment of chronic mucocutaneous moniliasis by. 2888
**Immunological relationship,** of Candida albicans and its transformants to Actinomycetales. 6769
**Immunological responsiveness (disturbed),** during Plasmodium berghei infection in mice. 4431
**Immunological study,** on Smittium. 6228
**Immunological unresponsiveness,** induced by cryptococcal capsular polysaccharide assayed by haemolytic plaque technique. 6234
**Immunologically suspect individuals,** application of xenodiagnosis for the demonstration of trypanosomiasis in. 6801
**Immunology,** of algal biliproteins, comparative studies of. 1997
**Immunoreactivity,** against Candida albicans, effect of azathioprin on. 2859
**Immunosuppressed patients,** surgical management of localized thoracic infections in. 2877
**Immunosuppression,**
  in children with malaria. 2215
  during typanosomiasis. 5604
  effect on the course of infection with Leishmania enriettii in the guinea pig. 4505
  effect of griseofulvin on. 419
  of IgG levels in experimental trypanosomiasis. 2287
  in murine malaria. 1666
  by Poly I. poly C and endotoxin. 2940
**Immunosuppressive therapy,** infection associated with. 7542
**Impact-cell-mill,** isolation method of protein from single cell by. 4328, 4329, 4911
**Impala,** uterine coccidiosis caused by Eimeria neitzi in. 481
**Imperfect stage,** in Pyrenomycetes, problem of. 5887
**Import,** effect on avian aspergillosis. 1634
**Imported disease,** significance of in medical hospital practice. 6223
**Impoundments (Central Texas),** nitrogen and phosphorus dynamics in. 6531
**Impurity,** in preparations of Acetabularia chloroplasts. 4833
**Imuran,** effect on immunoreactivity against Candida albicans. 2859

**nce,** biodeterioration of timber in water cooling towers in. 543
**nclusion (paracrystalline),** in Neurospora crassa. 3153
**ncompatibility (cellular),** in Podospora anserina, a case of suppression of. 1609
**ncompatibility (protoplasmic),** involvement of proteolytic enzymes in. 1981
**ncompatibility (self-),** in Schizophyllum commune, protein-subunit aggregation model for. 4950
**ncompatibility (temporal),** evidence for between DNA replication and division during the cell cycle of Tetrahymena. 5904
**ncompatibility (vegetative),** and cytoplasmic infection in fungi. 7488
**ncompatibility factor,** nuclear transplantation of in amoebae. 403
**ncompatibility factor B,**
  of Schizophyllum commune, a dome morphological mutant linked to. 397
  in Schizophyllum commune, structure of. 399
  suppression of mutation disruptive to nuclear migration in Schizophyllum by gene linked to. 3590
**ncompatibility factors (selectively recombing B),** of Schizophyllum commune. 1624, 2179
**ncompatibility interactions,** of green bean with Colletotrichum lindemuthianum, cultivar-specific protection factor from. 6358
**ncubation,**
  of Aspergillus flavus cultures, variation of aflatoxin content with duration of. 4826
  of Cercospora beticola, on sugar beet. 3226
**ncubation conditions,** effect on uptake of amino acid by actidione-treated yeast cells. 6093
**ncubation time,** effect on oospore germination in Pythium aphanidermatum. 619
**ncubators (microbiological),** decontamination of. 1576
**ndia,**
  algal stromatolite from lower Kaladgi limestones in. 5271
  Ascomycetes of. 1948
  Aspergillus rot of mango fruit in. 5795
  blue-green algae from paddy field soils of. 5264
  Cercospora leaf spot of bajra in. 507
  ciliate parasites of fish of the Bhavanisagar reservoir in. 6322
  Clavariaceae of. 6552
  common potato diseases in. 5759
  compatibility among different isolates of Cochliobolus heterostrophus in. 4702
  Curvularia verruciformis from grassland soils of. 5767
  Didymostilbe from. 4030
  distribution of leishmaniasis in. 1644
  ecological studies in the plankton of certain freshwater ponds in. 3239
  Enteromorpha from. 2521
  Entomophthora on tetranychid mites in. 2937
  fossil algae from Syringothyria limestone in. 5273
  freshwater plankton of a fishpond in. 3236
  Herpobasidium in. 3277
  Hyalodendron from. 4031
  identity and nomenclature of soybean rust from. 5209
  Lambertella from. 6444
  leaf spot diseases of Bermuda grass incited by Helminthosporia in. 5747
  Meliola juttingii on Pandanus odoratissimus from. 3267
  parasites of Trichoplusia ni and Plusia orichalcea in. 5044
  pathogenic Naegleria aerobia and Hartmanella in sewage sludge samples in. 5804
  Pezizales of. 658, 6451
  Phoma exigua from grassland soil of. 4622
  Phyllachora from. 3896
  Phyllosticta from. 3176
  Polyporaceae of. 659
  Protostrome indica from. 3914
  resistance of barley to stripe disease in. 528
  rust on groundnut in. 5732
  Schizosaccharomyces slooffiae from. 4644
  Schizothyrioma from. 3271
  Thelephoraceae of. 7081
  wilt and stemburn disease of Tephrosia rogelii in. 3752
  Xylaria apiculata from. 3273
**India (Allahabad),** ecological study of soil fungi of an agricultural field in. 7001
**India (Darjeeling),** trypanosomiasis in wild life in. 6878
**India (Gorakhpur),** soil fungi from teak forests of. 6998
**India (Hariana),** mycotic mastitis among animals in. 6293
**India (Kerala),** phragmosporous Phaseostilbeae from a rubber estate in. 6468
**India (Lucknow),** mycotic infections in. 6777
**India (Madras),** rust on groundnut leaves in. 5731
**India (Maharashtra),** Curvularia leaf spot of cotton in. 7658
**India (Nagpur),** clinical and mycological study of tinea capitis in. 5632
**India (Orissa),** thermal Cyanophyceae from. 6517
**India (Porto Novo waters),** phytoplankton pigments in. 1494
**India (Punjab),** theileriasis in exotic cattle and a buffalo in. 6316
**India (south),**
  control of coffee leaf disease in. 1119
  Diplodia natalensis causing dry rot of guava fruits in. 7660
  disease and pests of aromatic plants of. 4603
  fungi associated with new disease of coffee in. 6466
**India (Tamil Nadu),** Macrophomina stem rot of grapevine in. 7669

**India (Uttar Pradesh),**
  incidence of poultry coccidia in Tarai area of. 5589
  Zygnemaceae from. 646
**India (West Bengal),**
  additions to Pyrenomycetes of. 7182
  leaf-inhabiting Pyrenomycetes of. 1949, 2543
**Indian Ocean,** Dictyurus from the Maldive Islands in. 4672
**Indian red junglefowl (penraised),** diseases and parasites encountered in. 477
**Indiana University,**
  additions to culture collection of algae in 1966-67. 2448
  culture collection of algae at. 3140
**Indians,** of the upper Xingu, medical studies among. 4418
**Indole,** microbiological oxygenation with Calonectria decora. 865
**Indole compounds,** of Trigonella, changes in after infection with Peronospora trifoliorum. 1094
**Indole-3-acetic acid,**
  in Caulerpa prolifera. 3394
  degradation of by Nectria galligena. 6075
  effect on growth and spore liberation of Enteromorpha prolifera v. tubulosa. 4236
**Indoleacrylic acid,** inhibition of tryptophan synthetase by. 5326
**Indolics,** from Cyathus, extracellular production of. 283, 3415
**Indolmycin,** from Streptomyces griseus, biosynthesis of. 267
**Indoloquinoline analogue,** of amodiaquine, synthesis of. 2765
**β-Indolyl-acetic and lactic acids,** synthesized by Taphrina deformans from tryptophan, levels of in culture filtrate. 4193
**Indonesia,**
  survey of anti-toxoplasma haemagglutinating antibodies in sera from residents and animals in. 994
  survey of oil palm diseases in. 1777
**Inducers,** of interferon, effects of on experimental protozoan parasitic infections. 5488
**Induction,** of galactokinase in Saccharomyces cerevisiae. 7224
**Induction (mutation),** in Neurospora crassa incubated in mice and rats. 6187
**Industrial strs,** genetics and development of. 7491
**Inermin,** associated with pisatin in peas inoculated with Monilinia fructicola. 4545
**Inezin$^R$,** metabolism of by Pyricularia oryzae mycelial cells. 4896
**Infant,**
  efficacy of nystatin topical cream in the management of cutaneous candidiasis in. 5617
  epidemiology of yeast diseases in. 2841
  with napkin rash, skin flora of. 1681
  with severe combined immuno-deficiency. 1720
**Infant (newborn),**
  amoebic proctocolitis and liver abscess of. 4480
  candidal osteomyelitis and arthritis in. 6819
  candidiasis, meningitis and arthritis of. 7530
  human milk contaminated by Candida albicans an other yeasts as source of group infections of. 3829
  infections of. 1023
  Tinea facei due to Microsporum canis in. 5629
**Infant (premature),** trichomonas infection in. 1704
**Infection,** by Botryosphaeria corticis, factors affecting. 4244
**Infection (artificial),** of large field plants with Fusarium solani f. sp. pisi. 6962
**Infection (auto),** in neogregarines, electron microscope study of. 5858
**Infection dose,** significance of on pathogenic effect of Eimeria acervulina in the fowl. 6885
**Infection material (human),** fungal flora in. 2548
**Infectious diseases,**
  comparative assessment of methods used for analyzing the dynamics of the incidence of. 6737
  doctrine of epidemics during the period of reduced incidence and eradication of. 2196
**Infectious episodes,** acute relapses of idiopathic thrombopenic purpura at the time of. 6852
**Infectious power,** of Leishmania in absence and presence of living cells, loss and recovery of 4342
**Infective disease,** evidence of in mummies. 6789
**Infective dosage (different),** production of spores of Nosema plodiae after. 5901
**Infectivity,**
  of Entamoeba dysenteriae trophozoites, effect of low temperature on. 3475
  of Microspora canis. 7551
  of Puccinia graminis var. tritici uredospores, effect of pretreatment with stimulator and water vapours on. 4253
  of Trypanosoma simiae, lack of for cattle. 474
**Infertility,** mycotoxicosis as probable cause of in dairy cows. 2943
**Inflorescence development,** on Agrostis palustris, effect of infection by Ustilago striiformis var. agrostidis on. 7647
**Infusion (intravenous),** sepsis by. 5010
**Infusion solution,** application of sporotests to examination of sterility of. 6735
**Ingestion,**
  of host-cell cytoplasm by micropores in Eimeria alabamensis. 2138
  in Suctorian tentacle, microtubules model for. 3576
**Inheritance,**
  in Cochliobolus sativus, of factors conditioning lesion induction on gramineous hosts. 963
  of pathogenicity in Phytophthora capsici. 4376
  of resistance in Puccinia hordei in barley. 1623
  of resistance to stem rust in 6 Durum wheats. 3762

- **Inheritance (independent),** of avirulence and dodine resistance in Nectria haematococca var. cucurbitae. 964
- **Inheritance (maternal),** molecular basis of. 7476
- **Inhibition,** of sterol synthesis in cell-free extracts of yeast, structural specificity of bile acid for. 6107
- **Inhibition (allosteric),** of Candida utilis fructose biphosphatase by AMP, models for the interpretation of. 6104
- **Inhibition (growth),** response of the intracellular ATP pool of Saccharomyces cerevisiae to after induction by excess L-methionine. 7368
- **Inhibition (light-induced),** of DCMU-poisoned Chlorella respiration, photosystem I activity as cause of. 4235
- **Inhibition (photo),**
  - of Euglena gracilis division, influence of culture pH on. 4242
  - of phytoplankton photosynthesis as a function of exposure time. 4233
  - recovery of respiration capacity of yeast after. 6095
- **Inhibition (self),** of Uromyces fabae, study on. 3422
- **Inhibition technique,** in lichen. 4202
- **Inhibitors,**
  - from β-cyclopiazonate oxidocyclase from Penicillium cyclopium. 4119
  - of carotene synthesis, effect of on formation of Blakeslea trispora. 5467
  - of energy metabolism, influence of on the formation of Golgi bodies in amoebae. 6111
  - of fungal growth, Cinnamylphenols as. 6703
  - of Fusarium oxysporum f. lycopersici, post-infectional production of by tomato. 5108
  - of growth of some mycelial fungi, production by roots of Calluna vulgaris of. 5503
  - ionic relations of Hydrodictyon reticulatum in relation to. 6085
  - of photophosphorylation in algae, effect of. 7326
- **nhibitors (macromolecular),** of yeast RNase mediated through purine nucleotides. 6103
- **nhibitors (metabolic),** effect on uptake of amino acids by actidione-treated yeast cells. 6093
- **nhibitors (plant growth),** production of by fungi. 4190
- **nhibitors (postinfectional),** from plants. 7406
- **nhibitors (RNA synthesis),** permeability problems encountered when treating conidia of Neurospora crassa with. 6683
- **nhibitors (scald),** with postharvest benomyl and thiabendazole to control blue and grey mould in wounded apples. 5165
- **nhibitors(specific),** of RNase from Aspergillus clavatus 1816. 5342
- **njection (micro),** of Phycomyces. 4324
- **njuries,** human dermatophytosis favoured by. 4401
- **noculation,**
  - of fixed cocoa pods with Phytophthora palmivora, technique of. 4541
  - histological appearance of site of in guinea-pigs at various times after infection with Leishmania enriettii. 6792
  - susceptibility of hamsters and mice to Paracoccidioides brasiliensis using different routes of. 6857
- **Inoculation (intracameral),** of Toxoplasma gondii, effects of an interferon inducer on acute ocular infection produced by. 1092
- **Inoculation (intracranial amoebic),** in a hamster. 3717
- **Inoculation (intraperitoneal),** of blood from reservoir host into hamsters, isolation of Leishmania braziliensis by. 6874
- **Inoculation (intravascular and intrauterine),** of Aspergillus fumigatus, mycotic abortion in ewes caused by. 3693
- **Inoculation (ration and rumen),** influence of on establishment of rumen microorganisms in growing zebu calves. 7378
- **Inoculation method,**
  - for fungus cultures. 3557
  - evaluation of for screening potatoes for resistance to Rhizoctonia solani. 6733
- **Inoculum,** of Alternaria triticina for field inoculations, multiplication of. 5532
- **Inoculum (air-borne rust),** over western Canada. 6940
- **Inoculum (mixed flora),** new technique for isolating pathogenic fungi from. 6157
- **Inoculum density,**
  - natural rust epidemics in wheat nurseries as affected by. 6936
  - relationship to severity of Fusarium wilt of sweet potato. 1140
  - of Sclerotium cepivorum, effect of on disease severity. 3060
  - of soil-borne plant pathogens analyses involving. 3809
  - of Stereum purpureum, influence on growth in vitro. 1922
- **Inorganic requirement,** for minimal culture of Euglena gracilis. 6742
- **Inositol,**
  - isolation of Pyricularia oryzae mutant lacking. 974
  - in pharmaceutical products, elimination of choline interference in microbiological assay of. 3539
- **Inositol (total and free),** assay of with Schizosaccharomyces pombe. 2778
- **Inositol containing lipids,** in Saccharomyces cerevisiae, turnover of. 7295
- **Inositol deficiency,**
  - effect of on chemical and physiological properties of Saccharomyces cerevisiae inositol-less mutant A21-20. 3460
  - in Schizosaccharomyces pombe, spontaneous and nitrous acid induced mutants in. 1618

**Insect,**
  granuloma type antifungal reaction in. 2949
  Laboulbeniales parasitic on. 6543
**Insect (aquatic),**
  dispersal of algae and protozoa via the alimentary tracts of. 6496
  Harpellales from the guts of. 5285
**Insect (dipterous),** as gall-formers on fruiting bodies of polyporaceous fungi. 3851
**Insect (South African),**
  Candida from. 1954
  Torulopsis from. 1958
**Insect (wood-destroying),** physiological influences on of wood compounds and substances produced by microorganisms. 4038
**Insect flagellates,** from faeces and gut contents of lizards. 2951
**Insect-infested grain bulks,** canonical correlation analysis of abiotic and biotic variates in. 3828
**Insect-inhabiting Trichomycetes,** contribution to the axenic culture of. 1567
**Insect transmission,** of Ceratocystis associated with aspen cankers. 6327
**Insect trypanosomatid,** growth of at 37° C in defined medium. 6739
**Insecticide,**
  consequences of withdrawal of. 4300
  effects of on capacity of Mucor alternans to degrade DDT. 7033
  fungicidal control of seed root and seedling diseases of rice by treatment of seed with. 5167
**Insecticide (organophosphorus),** modification of the development of Beauveria tenella mycosis in Melolontha melolontha larvae by. 3696
**Insertion mutation,** in microorganisms. 6757
**Instability (induced replicating),** in Schizosaccharomyces pombe. 6208
**Instability (replicating),**
  in yeast, nature of. 5578
  in yeast, evidence from single cell isolation. 5579
**Insulating board,** fungi of. 657
**Insulin,**
  effect on binding of yeast hexokinase with hydrocortisone. 1529
  hydrolysis of peptide bonds of the oxidized $\beta$-chain of by Endothia parasitica protease. 4097
**Insulin (oxidized B-chain of),** substrate specificity of milk-clotting protease from Mucor pusillus determined on. 1976
**Intercalating drugs,** nalidixic acid for prevention of induction of yeast cytoplasmic respiration deficient mutants by. 5450, 5492
**Intercellular interactions,** effect of on anaerobic energy metabolism. 6674
**Interface (host-pathogen),** in rust-infected flax, ultrastructural specialization at. 4554
**Interference contrast,** morphological details of the calcareous nannoplankton emphasized by. 1562
**Interferon,**
  effects of on experimental protozoan parasitic infections. 5488
  and protection of mouse against experimental Plasmodium berghei infection. 2304
  in the protection of mice against massive infestation with Plasmodium berghei, mechanism of action of viral inducer of. 3620
**Interferon (rabbit serum),** induction of by Hansenula phosphomannans. 4157
**Interferon inducer,**
  effect on acute ocular infection produced by intracameral inoculation of Toxoplasma gondii. 1092
  effect on experimental fungus infections. 3697
**International Collection,** of Ciliate Type-Specimen current status of and guidelines for future contributors. 5229
**Interphase,** extrusion of nucleolar material during. 3979
**Intertidal algal flora,** of the Los Angeles area, changes in. 3262
**Intertidal marine algae,** phytosociological study of 3999
**Intestinal contents,** of Apis mellifera, fungi isolated from. 7188
**Intestinal flora (small),** method of examination, alteration in relation to diseases and bile salt metabolism. 7200
**Intestinal infection (acute),** functional insufficiency of the adrenal glands in. 6272
**Intestinal parasites,**
  evaluation of laboratory methods in detection of. 4345
  prevalence of in a selected community. 4409
**Intestinal stages,** of Eimeria, cytochemical localization of acid mucosubstances in. 480
**Intestinal stages (extra-),** of Isospora in cats. 452
**Intestinal structure (abnormal),** relation of giardiasis to in relation to function in gastrointestinal immunodeficiency syndrome 4464
**Intestine,**
  amoebiasis of, proctoscopic appearances with histopathological correlation. 456
  of Apis mellifica infected with Nosema apis and treated with fumagillin DCH, nucleic acids in. 3735
  cicatricial structure in amoebiasis of. 6838
  clinical aspects of amoebiasis of in children. 3669
  flora of, effect of yeast on the eubiosis of and meaning of dysbiosis in dermatoses. 1018
  of immunoglobulin-deficient and normal human subjects, microflora of. 5929
  metronidazole in the treatment of non dysenteri amoebiasis of. 6837
  of mice exposed to X-irradiation, distribution

**ntestine, contd.,**
    parasitic flagellates in. 5668
  modification of iron quercetin phosphotungstic acid haematoxylin stain for protozoa in. 2798
  parasites and commensals of in natives of central Kenya. 415
**ntestine (human),** Flagellata of. 676
**ntoxication,**
  by Amanita phalloides, new aspects of the management of. 6809
  by Amanita phalloides, histologic changes in the liver biopsy in. 6808
  death-cap causing. 6247
  by rye ergot derivatives, clinical aspects of. 3625
**ntoxication (experimental Amanita phalloides),** curative potencies of penicillin in. 2938
**ntoxication (nutritional),** in the feeding of animals. 7010
**ntoxication (unprecendented),** by an altered Tricholoma. 5780
**ntracameral inoculation,** of Toxoplasma gondii, effects of an interferon inducer on acute ocular infection produced by. 1092
**ntradermal jet injection,** coccidioidin skin testing by. 7504
**ntravenous infusion (rapid),** effect on serum concentrations of amphotericin B. 1022
**nvert sugar,** experience in treatment of cerebral malaria with urea in. 2271
**nvertase,**
  from baker's yeast, release of in an industrial homogenizer. 3328
  of Candida utilis, studies on. 6007
  of Cercospora beticola, oxidative inactivation of. 4785
  of Saccharomyces cerevisiae, properties of. 741
  of yeast effect of cycloheximide and 2-deoxy-D-glucose on biosynthesis and secretion of. 1402
  of yeast, relationship between carbohydrate content and enzymatic activity of. 1991
**nvertase release,** in yeast, effect of dithiothreitol on. 1521
**nvertase secretion,** of Neurospora crassa slime mutants. 5199
**nvertebrate (aquatic),** action of cellulose on. 548
**nvertebrate (benthic),** of the St. Lawrence Gulf, catalogue of. 4061
**nvertebrate (forest soil),** trophic structure and feeding rates of. 3097
**nvertebrate host,** Trypanosoma cruzi life cycle in. 3981
**n vitro,** development of and incorporation of labelled precursors into malaria parasites. 105
**odides,** fixed by various marine algae, fate of and determination of iodized amino acids in hydrolysates. 7266
**odoacetic acid,** effect on sclerotium formation in Sclerotium. 1285
**Iodochlorhydroxyquin,** treatment of amoebiasis with. 2911
**Ion,** in phytoplankton of a fishpond, transport studies of. 655
**Ion (inorganic),** effect of triterpeneglycosides on leakage of. 3455
**Ion concentration,** in developing Pelvetia eggs. 5870
**Ion distribution,** in Amoeba proteus. 6656
**Ion levels,** of Amoeba. 5451
**Ion relations,**
  of Enteromorpha intestinalis. 4203
  of Hydrodictyon reticulatum. 6085
**Ion transport,** theory of in relation to flagellar structure and their movements to phototaxis of Euglena. 5807
**Ion transport (active),** in Hydrodictyon africanum, inhibitor effects on. 2712
**Ion transport (selective),** and cell turgor pressure in Chaetomorpha linum. 5172
**Ionian Sea,** foraminifera of bottom samples collected in Taranto Gulf in. 1345
**Ipronidazole,** effect of cupric sulphate on the prophylactic efficacy of against histomoniasis in turkeys. 4504
**Iran,**
  epidemiology of cutaneous leishmaniasis in. 7493
  Fusarium and Cylindrocarpon in. 2549
  pythiaceous fungi associated with citrus decline in. 7625
**Iraq,**
  forest entomological studies in. 6341
  mycological fat production from date extract from. 6058
  race identification and distribution of wheat leaf and stem rusts in. 3010
  toxoplasmic lymphadenitis in. 3680
**Ireland (Northern),** see UK (Ireland).
**Ireland (Southern),** see Eire.
**Iron,**
  in Candida guilliermondii, investigations of the behaviour of. 5380
  decomposition of minerals containing by soil microorganisms. 7000
  effect of on the rythrocytic forms of Plasmodium berghei. 4522
  effect on lipid metabolism of Tetrahymena pyriformis. 1601
  role of biological factors in the sedimentation of. 4016
  role in host parasite interactions. 1524
  solubilization of by soil microorganisms. 1166
**Iron (available),** as limiting factor for marine phytoplankton. 2807
**Iron complexes,** of mannose-containing microbial polysaccharides, decomposition and binding action in soil of. 6380

- **Iron content,** of nitrate reductase from Ankistrodesmus. 3306
- **Iron deficiency,** in Anacystis nidulans, changes in pigment composition and photosynthesis induced by. 3435
- **Iron metabolism,** abnormalities of associated with chronic muco-cutaneous candidiasis. 5013
- **Iron microquantities,** in plankton and foraminiferal tests, determination of. 7344
- **Iron quercetin phosphotungstic acid haematoxylin stain,** for intestinal protozoa, modification of. 2798
- **Iron-sulphur centres,** in the respiratory chain of Candida utilis sub mitochondrial particles, oxidation-reduction potentials of. 3428
- **Iron supply,** effect on activities of nitrate-reducing system from Chlorella. 2811
- **Irradiated cellular slime-moulds,** independence of propagation ability in developmental processes in. 4700
- **Irradiated diploid yeast,** at 50% survival level, RNA synthesis in. 4756
- **Irradiated Eimeria acervulina,** immunization by. 4430
- **Irradiation,**
  - of Aspergillus conidium, effect on a germination inhibitor. 4878
  - effect on growth of Chlorella. 313
  - mathematical modelling of cell responses to. 4283
  - in plant diseases. 5134
  - stimulation of action potentials with in single cells of Nitella gracilis. 4872
  - of yeast cells, survival curves and delayed appearance of macrocolonies. 4875
- **$\gamma$-Irradiation,**
  - of amoebas, sensitization action of actinomycin D before. 903
  - comparative sensitivity to of conidia, mycelia and sclerotia of Botrytis cinerea. 7388
  - effect on Penicillium expansum. 2091
  - effects of on Plasmodium knowelesi. 5493
  - effect of on storage of maize and milo. 3835
  - effects of on Toxoplasma from the dog. 5494
  - by halogens, sensitization of Aspergillus flavus spores to. 7387
  - induction of maize mutant resistant to Helminthosporium turcicum by. 3782
  - influence of on fungal crop. 6124
  - intercellular interactions and recovery of Plectonema boryanum population after. 4271
  - resistance of fungi with different pigments to. 3490
  - sensitivity of the main corn moulds conidia to. 1544
  - useful mutations induced by in the field bean. 1761
  - of yeast, maintenance of effect on earth and in space. 2089
  - of yeast, pattern of dose-survival curve during repeated. 901
- **X-Irradiation,**
  - acid-soluble deoxynucleotides in DNA synthesis in growing yeast after. 3464
  - combined effect of with oleic acid on yeasts. 3503
  - complementation and genetic recombination in Candida lipolytica caused by. 322
  - distribution of parasitic intestinal flagellates in mice exposed to. 5668
  - of Saccharomyces, induction of recombination by. 3485, 3486
  - segregants from Penicillium chrysogenum heterozygous diploids following treatment with. 981
- **$\gamma$-Irradiation (chronic),** effect on Chlorella. 4272
- **$\gamma$-Irradiation ($^{60}$Co),** response of Chlorella sorokiniana to. 3481
- **Irradiation ($^{60}$Co, $\gamma$-rays, heavy ions, and $\pi^-$ mesons),** induction of heteroallelic reversions and lethality in Saccharomyces cerevisiae exposed to in air and nitrogen atmospheres. 899
- **Irradiation (ionizing),**
  - effect of on the structuredness of cytoplasm and rates of enzymatic hydrolysis in growing yeast cells. 6686
  - recovery of haploid Saccharomyces cerevisiae from dominant lethals induced by. 2169
  - recovery of Saccharomyces cerevisiae and dominant lethals induced by. 2088
- **X-Irradiation (lethal),** growth and metabolism in yeast cells after. 2090
- **X-Irradiation (low energy),** effect of on membrane potential, memebrane resistance and action potential of Nitella flexilis. 6118
- **Irradiation (monochromatic),** action of on the growth of the thallus of Acrochaetium. 6088
- **Irradiation (sub-lethal),** effect on coccidia and capillaria infections in the hen. 2747
- **X-Irradiation (superficial),** comparison with strontium 90 therapy for mycosis fungoides. 2246
- **Irradiation (UV),** see UV-irradiation.
- **Irradiation damage,** stability of in the cell-population. 7390
- **Irradiation dose,** dynamics of post-radiation death in amoebae related to. 4879
- **Irradiation-induced DNA strand scissions,** in Chlorella, repair of during the cell cycle. 4871
- **Irradiation-induced electrolyte disturbances,** in yeast. 4281, 4282
- **X-Irradiation-induced half-sectored colonies,** of Saccharomyces cerevisiae, genetic analysis of. 4874
- **$\gamma$-Irradiation injury,** in Rhizopus stolonifer sporangiospores, effect of chemical sensitization on repair of. 2085

**X-Irradiation sensitive mutants,** of Saccharomyces cerevisiae, study of rate of spontaneous mutational process in. 2168

**Irradiation sterilization,** use of for treatment of disposable plastic syringes. 4873

**Irrigation,**
- influence on aflatoxin in peanuts before digging. 1165
- relation to development of leaf disease in semi-arid areas. 494

**Irrigation (sprinkler),** control of Cercospora leafspot of sugarbeet under. 1132

**Ishima Islands,** marine algae of. 6525

**Islands,** of Apseronskij and Bakinskij archipelagos of the Caspian Sea, ciliates from microbenthos of. 7199

**Isle of Oléron,** Phaeodactylum tricornutum from. 644

**Isoaccepting species,** of histidine tRNA from baker's yeast. 5946

**Isoamylase (yeast),** comparison of with bacterial pullulanase on amylopectin. 1992

**Isocitrate dehydrogenase,** in Physarum polycephalum activity during spherulation induced by mannitol. 1391

**Isocitrate lyase,**
- of Candida guilliermondii on hydrocarbon containing medium, activity of. 759
- in Gloemonas, regulation of. 1388

**Isoenzyme (phosphorylase),** in algae, de nova synthesis of polyglucans by. 1386

**Isoenzyme pattern,**
- and de novo synthesis of phosphodiesterase during differentiation in Physarum polycephalum. 4092
- of Fusarium and their significance in taxonomy. 7248
- produced with disc electrophoresis of Physarales, taxonomic application of. 7061

**Isoenzymes,**
- of alcohol dehydrogenase in "Flor' yeast, induction of. 5334
- of Chlorella vulgaris, changes in depending on various conditions of carbohydrate nutrition. 5368
- of 3-deoxy-D-arabino-heptulosonate-7-phosphate synthetase, from Saccharomyces cerevisiae, separation and properties of. 167
- of yeast hexokinase, subunit structure and hybridization of. 776

**Isoenzymes (laccase and peroxidase),** relationship between types of of Basidiomycetes. 7238

**Isolation,**
- of Histoplasma capsulatum, concentration and cultural method for. 2774
- of lichen fungi and algae. 5525
- of Naegleria gruberi in vitro. 2801

**Isolation methods (bulk),** attempt to obtain pyrenoids of Zygnema by. 2769, 3525

**L-Isoleucine,** in the culture of Leishmania tarentolae. 1600

**Isoleucine-valine 1 homoallelic crosses,** in Neurospora, genetic determination of high meiotic reversion frequencies in. 6188

**Isoleucine-valine pathway,**
- in Neurospora crassa, submitochondrial localization of. 4326
- in Saccharomyces cerevisiae, involvement of threonine deaminase in multivalent repressior of. 740

**Isomerase (phosphoglucose),** activity of during morphogenesis of nucleate and anucleate cells of Acetabularia. 5959

**Isomerase (triose phosphate),** from baker's yeast, preliminary crystallographic data on. 5988

**Isomerism (sterio),** and induced production of pigment by Curvularia lycopersici in cultures. 7374

**Isonitrile groups,** of xanthocillin of Penicillium notatum, origin of the nitrogen of. 2654

**Isoprenylation,** of cyclo-L-alanyl-L-tryptophanyl. 6038

**5β-Iso-scillarenin,**
- oxygenation of by Rhizopus. 2043
- structure elucidation of the products of the microbial oxygenation of. 2044

**Isothiocyanate (4-bromobenzyl),** effect on the redox state of NAD in Candida albicans. 3470

**Isotopes,** in plant diseases. 5134

**Isotopic tracer techniques,** use of for the study of Plasmodium berghei. 2802

**Israel,**
- attempt at forecasting the Peridinium bloom in Lake Kinneret. 7157
- Boletaceae of. 7068
- common diseases of carp in. 5710
- coprophilous fungi of. 6542
- distribution and imigration of Peridinium in Lake Kinneret. 7158
- Fusarium isolated from citrus fruits of. 5745
- Fusarium of the Martiella section in. 3911
- list of entomogenous fungi from. 121
- reaction of wild Carthamus to rust, powdery mildew, Ramularia leafspot and phyllody in. 1765
- serological survey of Besnoitia besnoiti infection in by immunofluorescence. 7595
- Triplosporium floridanum attacking spider mites in. 7580
- vaccination with 5 year old human str of Leishmania tropica from the Negev in. 6793
- vaccination with recently isolated str of Leishmania tropica from Jericho in. 6794

**Issas,** leishmaniasis in. 1700

**Italy,**
- cutaneous leishmaniosis followed by Kala Azar in adults in. 3656
- distribution of antibodies against Acanthamoeba castellanii in subjects from. 4427
- trophic interrelations in rivers in. 7689

**Italy (Florence),** toxoplasmosis of the dog and cat in. 2855

**Italy (Naples),** ecological study of the wine-cellars of. 662

**Italy (Northern),** detailed observations on some Orbulina tests from neogene of. 1256

**Italy (Venice Lagoon),** phytoplankton bloom in. 1299

**Ivory Coast,**
- fungal microflora of the soils of Lamto in. 6390
- role of environment on the behaviour of cacao pods towards Phytophthora palmivora in. 2319
- study of phytoplankton on the continental shelf of. 1944

**Ivory Coast (southern),** study of white thread blights in. 2333

**Ivy,** mixed culture of microorganisms of the rhizosphere of. 6378

## J

**Jamaica,** studies at Oyster Bay in. 4011

**Japan,**
- aerial and soil algae from Ishizuchi mountains in. 5762
- Anabaena from Hokkaido in. 1289
- bacterial flora of plankton in inshore waters of. 687
- Beauveria bassiana isolated from lepidoptera in. 6868
- Bifusella on Cunninghamia in. 6440
- desmids of a Sphagnum-moor in. 4718
- ecological studies of the epilithic algae in winter in the Kongo-Gawa River in. 7143
- Eimeria from lizards of. 1348
- Eutreptiella and Exuviaella in the Seto Inland Sea in. 4042
- fungi from Yakushima island in. 4736
- Gibsmithsia in Amami Island near. 6523
- history and description of Oshoro marine biological station in. 4018
- life cycle of Urospora mirabilis from Muroran in. 6490
- marine algae from the coast of Fukaura Aomori Pref. facing the Japan Sea. 113
- marine algae of Ishima Islands near. 6525
- marine algae from Kojima island of the southwestern coast of Hokkaido in. 114
- marine algal communities of Sado, Tobishima and the Sea coast in the Tohoku District. 110
- mortality factors of the pine moth in the suburbs of Chiba City in. 6867
- new Delesseriaceae from Hokkaido in. 11
- periodicity of Zygnemataceae in the Tsurumine Hachimanguu pond in. 6491
- plankton and seston in the sea surface of 3 inlets of. 4730
- Saprochaeta saccharophila in. 7052
- Scenedesmus in. 1206
- test on aflatoxin contamination of miso and miso-koji in. 7694
- Vaucheria from. 5269
- vitamin $B_{12}$, thamine and biotin in Lake Sagami in. 7164
- yeasts from. 3907, 3908

**Japan Sea,**
- marine algae from the coast of Iwadate facing the. 1310
- seasonal characteristics of phytoplankton in the Amursky Bay of. 4006

**Jaundice,** association of with falciparum malaria. 3677

**Jena glass bottles,** used in measuring phytoplanktonic primary production by the $^{14}C$ method. 7438

**Johnstonol,** from Laurencia johnstonii. 3407

**Joiner,** aspergilloma grafted on a foreign body granuloma of the lung in. 5610

**Jordan valley (lower),**
- a new piroplasm from Psammomys obesus in. 1257
- Nuttallia meri from Psammonys obesus in. 2311

**Jorge Lobo's disease (experimental),** bizarre forms of in tortoises. 1729

**Jowar,** control of diseases of. 4608

**Juices (fruit),** utilization of fungal enzymes in the liquefaction of soft fruits and extraction and clarification of. 4122

**July (end of),** small scale distribution of phytoplankton in western Mediterranean in. 1942

**Junipers (ornamental),** canker disease of. 3034

**Jura (southern),**
- Eclusia moutyi from. 4044
- foraminifera of the Dogger of. 4048
- Plainiinvoluta carinata in the upper Aalenian of. 4049

**Jurassic (Upper),** foraminifera from of Southwestern Crimea. 7196

**Jute,** varietal reactions of the mutants of and their mother variety to stem rot disease. 5750

## K

**Kala-Azar,**
- diagnosis of. 948

- **ala-Azar, contd.,**
  - following cutaneous leishmaniosis in Italy. 3656
  - in Iran. 4466
  - nephropathy of. 7557
- **alimati,** in the Valley of Katmandu, biological study of. 3800
- **anem,** phytoplankton of the soda lakes of. 1290
- **aolin,** heterogeneity in the reactivity of antibodies with. 6242
- **appa particles,** in Paramecium, observations of. 1792
- **appa symbiont,** of Paramecium aurelia, bacteriophage-like inclusions in. 5760
- **arakalpak ASSR,** infection of great gerbils with Leishmania tropica major in. 4507
- **atsura-tree,** Dothiorella causing canker and wood discolouration on. 3037
- **azakhstan,** Eimeria from the pika from. 3937
- **elp forests (polluted),** ecological studies on macroinvertebrate populations associated with. 3117
- **enya,**
  - intestinal parasites and commensals of natives of. 415
  - physiologic specialization and sources of resistance to wheat leaf rust in. 3009
  - role of malaria in aetiology of nephrotic syndrome in. 4414
- **erala,** Meliola juttingii on Pandanus odoratissimus from. 3267
- **eratinase,** inhibition of by $\alpha_2$-macroglobulin. 7254
- **eratinophilic ability,** of Monodictys levis and Trichophyton ajelloi. 1599
- **eratinophilic fungi (pathogenic to man),** occurrence in the hair and skin of normal dogs and cats. 3601
- **eratinophilic Gymnoascaceae,** from Senegal. 123
- **eratitis,** caused by Fusarium solani, treatment of with natamycin. 7546
- **eratomycosis,** after corneal transplantation. 6270
- **eratoplasty (therapeutical),** in fungal corneal ulcers. 3629
- **eratosis (senile),** topical fluorouracil treatment of. 5019
- **ernel (Fusarium),** importance of. 6324
- **ernel rot,** hyper-susceptibility of high-lysine corn to. 3836
- **erosene fungus,**
  - selective isolation of. 2783
  - selective isolation of from air. 4336
- **etides (poly),** biosynthesis of by Penicillium patulum. 6608
- **-Ketobutyrate decarboxylase,** in Rhizoctonia solani, activity of. 179
- **-Ketoisovaleric acid,** inhibition of diacetyl synthesis by valine and the role of in the synthesis of diacetyl by Saccharomyces cerevisiae. 6651
- **etone,** excretion by algae. 864
- **-Ketooctadecanoic acid,** metabolism of by Escherichia coli K12 and Candida tropicalis. 4813
- **Kidney,** see also Renal failure, Renal insufficiency, and Renal transplant.
  - candidiasis of. 2890
  - collaborative clinicopathological study in Nigerian children with quartan malaria of. 5035
  - falciparum malaria causing pathology of. 4967
  - in mice, damage induced in by Penicillium viridicatum. 3058
  - of mice infected with rodent malaria, deposition of $\gamma$-globulins in the glomeruli in. 7513
  - plasma $C_3$ concentrations in malaria affecting. 2268
  - role of malaria in aetiology of diseases of. 4414
- **Kidney (right),** amoebic liver abscess presenting a space occupying lesion of. 2915
- **Kidney cell cultures (primary),**
  - of chicken, survival and development of coccidia in. 2139
  - from chicken, pheasant, partridge and turkey, comparative development of Eimeria tenella in. 3985
- **Kidney damage,** in swine, fungus as cause of. 2410
- **Kikuyu poisoning,** of cattle, similarities with experimental mycotoxicosis. 6870
- **Killer factor (yeast),** effect on sensitive cells. 2686
- **Killer particles,** from Paramecium aurelia, growth in vitro of. 3122
- **Kinase (allosteric pyruvate),** from yeast, proton relaxation and kinetic studies of ternary complexes of. 7255
- **Kinase (cyclic AMP inhibited protein),** from Physarum polycephalum. 1975
- **Kinase (phosphofructo),**
  - from fermenting and non-fermenting yeast. 2598
  - of Neurospora crassa, kinetic properties of. 2595
- **Kinase (pyruvate),**
  - from Coprinus lagopus, factors affecting level and activity of. 171
  - in Mucor rouxii mycelium, new form of. 158
  - of Neurospora, conformational changes of induced by Tris buffer. 5975
  - of Neurospora crassa, purification and properties of. 6588
  - of yeast, affinity chromatography of with Cibacronblau bound to Sephadex G-200. 4783
  - of yeast, application of kinetics of to calculation of glycolytic flux in anaerobic yeast cell. 6591
  - of yeast, modification of by 2,4,6-trinitrobenzenesulphonic acid. 5983
  - of yeast, molecular weight of. 1397
  - of yeast, proton-relaxation-enhancement studies on the binding to of a substrate and effectors. 7230

**Kinase (pyruvate), contd.,**
  of yeast, purification and crystallization of. 4772
**Kinase (reduced diphosphopyridine nucleotide),** from yeast mitochondria, purification and properties of. 5330
**Kinase (thymidine),** from Trypanosoma brucei rhodesiense, isolation, partial purification and properties of. 5359
**Kinase (uridine-cytidine),** role of in regulation of pyrimidine ribonucleotide synthesis. 786
**Kinase activity (shikimate),** of Saccharomyces cartilaginosus, studies on. 6592
**Kinase renaturation (pyruvate),** of yeast, after dissociation by guanidine HCl. 6593
**Kinetic properties,**
  of the changes in yeast cells exposed to the action of ultrasonic waves. 5471
  of yeast hexokinase P-II, application of equilibrium exchange kinetics to studies of. 6016
**Kinetics,**
  of alkaline protease from Acremonium kiliense. 6002
  of mating reaction of Tetrahymena pyriformis syngen 1. 5261
  of Pinocytosis in Acanthamoeba castellanii. 6178
**Kinetics (in vitro),** of Paranaplasma caudata and Plasmodium gallinaceum. 5809
**Kinetin,**
  effect on the increase in material of Amanita pantherina mycelial culture. 4251
  enzymatic degradation of in Schizosaccharomyces pombe. 7235
  in Schizosaccharomyces pombe, metabolism of. 6618
**Kinetochore,** in fungal nucleus, ultrastructure of. 583
**Kinetoplast,**
  potential for physiological variation in Trypanosoma evansi in relation to the state of. 5052
  of p-rosaniline resistant Trypanosoma evansi, studies on the effect of p-rosaniline on. 6681
  of Trypanosoma, studies of ultrastructure of by autoradiography and enzymatic digestion. 1254
  of Trypanosoma cruzi, replicating, covalently closed, circular DNA from. 5957
  of Trypanosoma cruzi, ultrastructural alterations of induced by the interaction of hydroxystilbamidine with kinetoplast DNA. 1557
**Kinetoplast DNA,** retention of in an acriflavine-induced dyskinetoplastic Trypanosoma brucei. 1926
**Kinetoplasty,** of Trypanosoma, kinetoplast and whole cell DNA in. 717
**Kinetosomes,**
  of Chilodonella cucullulus, regional multiplications of after phenethyl alcohol treatment. 3193
  in Entodinium caudatum, study of. 67
  of Tetrahymena, pattern of replication of. 19
**Kinetosomes (free),** in Australian flagellates. 64
**Kinetosomes (transfer),** role of in the germinati of protozoa. 2510
**Kiri,**
  rot of. 3050
  scab of. 6362
**Kitazin $P^R$,** metabolism of by Pyricularia oryzae mycelial cells. 4895
**Koch medium,** growth of Chlorella pyrenoidosa o 346
**Kodo millet,** Helminthosporium turcicum causin blight disease on. 515
**Kofoid (C. A),** unpublished observations on theca stage of a dinoflagellate Pyrocystis by. 586
**Koji mould,** classification of. 1239
**Kojima island,** marine algae from. 114
**Kola Peninsula,** new and little-known Microspori from fish of. 1349
**Kombu extract,** studies of bacterial growth on an growth of food poisoning bacteria inoculate into. 3822
**Korea,**
  Babesia gibsoni infection of dog in. 2291
  200 patients with amoebic abscess of the liver in. 5643
  soil mycoflora in larch forest in Sugadaira in. 7684
**Krasnodar,** characters of biology and immunity diseases of black and red currants in. 572
**Krebs-Henseleit cycle,** in Saccharomyces cerevisiae, regulation of arginase levels b urea and intermediates of. 1982
**Kruger National Park,** parasitic and other natura diseases of the African elephant in. 5587, 5667
**Kundrymycin,**
  isolation,chemical characterization and biological activity of. 352
  production and taxonomy of actinomycete producing. 851
**Kurozo,** study on the desmids of. 4718
**Kurricker Berg Reserve,** Peronosporales, Erysiphaceae, Uredinales and Ustilaginale from. 1320
**Kuwait,** review of histopathological material dur 1969/70 in Sabah Hospital. 2240
**Kynureninase,** in Neurospora crassa, evidence activity of. 731
**L-Kynurenine 3-hydroxylase,** in Saccharomyces cerevisiae, regulatory function of for the biosynthesis of pyridine nucleotides. 1983

**forms,** of Proteus, alkenyl and alkyl prosphatides in. 3378
**abelling,** of precursors in malaria parasites in vitro. 105
**abelling (spin),** of yeast cells. 3537
**abeo rohita,** electrophoretic determination of amylase in the post-embryonic stage of. 3850
**aboratory methods,** for detection of Entamoeba histolytica and other intestinal parasites, evaluation of. 4345
**accase,**
  of fungi, reduction of copper by hydrated electrons of. 185
  from Ganoderma lucidum, purification and properties of. 5999
  occurrence of in Agaricales and comparative study of laccase from Russula. 7236
  relationship between types of and peroxidase isoenzymes of Basidiomycetes. 7238
**accase 11,** Podospora anserina, microheterogeneity of. 2601
**accases,** of Podospora anserina, substrate specificity of. 2600
**accases I and II and III,** of Podospora anserina, electron microscopic studies of the structure of. 5981
**actation (puerperal),** suppression of with an ergot alkaloid. 5415
**actic acid fermentation,** by Rhizopus G-36, studies on. 4838, 4839
**actobacillus leichmannii method,** for the measurement of vitamin $B_{12}$ in serum. 2770
**actoferrin (iron-saturated),** inhibition of Candida albicans growth by. 2729
**actone,** from Penicillium, structure of. 6080
**Lactone,** of 3,5-dihydroxydecanoic acid, formation of by Cephalosporium recifei. 4842
**actone (2-ketopantoyl),** of yeast, separation and preliminary studies on. 7256
**actonization (microbial steroid D-ring),** inhibition of by high levels of progesterone. 6059
**actose,** utilization by fruit-rot fungi. 1598
**actose-free milk diet,** development of. 3825
**actose-induced synchronous sclerotium,** formation in Sclerotium rolfsii and its inhibition by ethanol. 6678
**actose non-utilizing mutants,** in Aspergillus nidulans, isolation and characterization of. 6213
**actose removal,** from cheese whey using Saccharomyces fragilis. 6403
**genaria vulgaris,** charcoal rot of. 5117
**Lagoon (2-stage aerated),** design of. 7031
**Lake,** recent diatom history of Loch Leven. 7146
**Lake (eutrophic),**
  phytoplankton succession in. 5263
  production of benthic microalgae in the littoral zone of. 2518
**Lake (eutrophic shallow),** limnological assessment of. 3235
**Lake (freshwater),**
  carbon, nitrogen and phosphorus in relation to eutrophication of. 2539
  carbon, nitrogen and phosphorus and the eutrophication of. 3566
  seasonal fluctuation of phytoplankton composition, diversity and production in. 4711
**Lake (high mountain),**
  dynamics and productivity of phytoplankton and pelagic bacteria in. 7156
  factors that control the production rate and biomass of phytoplankton in. 7165
**Lake (naturally occurring eutrophic),** vitamin $B_{12}$, production and depletion in. 4004
**Lake (polluted saline),** distribution of phytoplankton in. 5169
**Lake (small senescing),** dependence of primary production on physical and chemical factors in. 4009
**Lake 227,** in Northwestern Ontario, eutrophication of by addition of phosphate and nitrate. 4724
**Lake Baikal,**
  dynamics of organic compounds of nitrogen and phosphorus as index of biotic cycle of substances in. 2537
  ratio of organic and mineral components of. 3237
**Lake Balaton and Belso,** weekly changes of the bacterio- and phytoplankton standing stock in. 1292
**Lake beds (Pillsbury and Sylvan),** in Northwest Iowa, diatoms in lacustrine sediments of. 4714
**Lake Chilwa,** causes of mortality in Tilapia of. 6514
**Lake Clear,**
  freshwater 'red tide' on. 2524
  in Texas, Henneguya from the Black Drum in. 4053
**Lake Constance,** profundal testacean fauna of the older and younger sediments of. 5298
**Lake Douglas,** additions to Phycomycete flora of. 1217
**Lake ecosystem (freshwater),** nutrient composition of. 4007
**Lake Erie,** the algae of. 112
**Lake Erie water (filtered),** limiting nutrient elements in. 4354
**Lake Erken,** nitrogen fixation in. 3992
**Lake Finstertal,** sediment-dwelling testate amoebae of. 679

- **Lake Huron,** effects of exploitation introductions and eutrophication on the salmonid community of. 6528
- **Lake Kinneret,**
  - attempt at forecasting the Peridinium bloom in. 7157
  - distribution and imigration of Peridinium in. 7158
- **Lake Kononjer,** photosynthesizing bacteria of. 5266
- **Lake Lucerne,** effect of phosphorus sewage in limiting growth in. 1197
- **Lake Lucerne (mesotrophic Horwer Bay),** ecological parameters in. 3249
- **Lake Marion,**
  - ecology of epipelic algal communities in. 2540
  - validation of Coelomomyces from. 4731
- **Lake Michigan,**
  - eutrophication problem in. 6527
  - eutrophication, silica depletion, and algal changes in. 545
  - significance to eutrophication of spatial differences in nutrients and diatoms in. 6520
- **Lake Minnetonka,** phytoplankton, photosynthesis and phosphorus in. 6646
- **Lake Mjörn,** in western Västergötland, littoral vegetation at. 5294
- **Lake Neagh,** succession of phytoplankton in. 7167
- **Lake Neuchâtel,** diatoms of. 2514
- **Lake Ontario,** nutrients and nutrient budgets in the Bay of Quinte in. 1820
- **Lake Red Haw,** primary productivity in. 4727
- **Lake-river system,** effects of secondary and tertiary waste-water effluents on algal growth in. 7024
- **Lake Sagami,** vitamin $B_{12}$, thiamine and biotin in. 7164
- **Lake Taiga,** physical limnology, chemistry and plant productivity of. 7160
- **Lake Texoma,** surface phytoplankton and the physical-chemical limnology of. 5920
- **Lake Volta,**
  - distribution of phytoplankton during the early development of. 7169
  - ecology of phytoplankton of. 3246
- **Lake water,** pathways of phosphorus in. 7711
- **Lake Windermere,** seasonal periodicity of 3 planktonic desmids in. 7150
- **Lake Winnipeg,** attached algae on artificial and natural substrates in. 4726
- **Lakes,**
  - application of the method of factorial analysis to the correspondence between classification of as a function of the degree of eutrophy of. 5906
  - evaluation of eutrophy and maturity in. 7171
  - heterotrophy by plankton in in relation to productivity. 4934
  - interactions of epiphytic algae and bacteria and macrophytes of littoral zone of. 652
  - in the Netherlands, limnological studies on. 4010
  - nitrogen fixation in. 5262
  - optical density profiles as aid to study of microstratified phytoplankton populations in. 924
- **Lakes (Antarctic),** comparisons of with different trophic states. 5280
- **Lakes (Danish),** phytoplankton of. 7176
- **Lakes (Duszatynskie),** in Poland, list of Testacea from. 1343
- **Lakes (Great),** clean-up of. 7713
- **Lakes (Laurentian Great),** contributions to diatom flora of. 3240
- **Lakes (Mazurian),** mass appearance of algae in the littoral of. 7168
- **Lakes (Mecklenburg),** limnology of. 6536
- **Lakes (north and central Florida),** limnological characteristics of. 6516
- **Lakes (oligotrophic),** effect of eutrophication on salmonid communities in. 6529
- **Lakes (Rotoiti and Waikato),** submerged vegetation of. 5910
- **Lamb,**
  - development of microbial activity in the alimentary tract of. 7587
  - variation of the number of oocysts of coccidia in the faeces of. 5059
- **Lambliasis.** 4465
- **Lamella (inner),** of Acanthamoeba palestinensis plasma membrane, regularly arranged particles on. 2473
- **Laminar flow systems,**
  - paediatric application of. 4339
  - comparison with ultra-clean room in reverse isolation in bone marrow transplantation. 7555
- **Laminaran,** in Cystoseira stricta, analysis of. 3358
- **Lanatoside C,** transformation of by Phyllosticta digitalis. 3388
- **Laos,** malaria in. 4487
- **Lapland,** Bryodiscus grimmiae from. 4025
- **Larch forest,** in Sugadaira, soil mycoflora in. 7684
- **Larch leaf waxes,** utilized by Sporobolomyces roseus in situ. 4599
- **Lard,** effect of physical and chemical factors on the growth of moulds on. 7709
- **Laredo,** Entamoeba histolytica-like amoebae known as. 1648
- **Larvae,**
  - of Acanthaster planci, development of and feeding on unicellular algae. 1175
  - of the brine shrimp, comparative investigations on the toxicity of mycotoxins to. 7322
  - of the eye gnat infected with Herpetomonas muscarum, histological observations on. 7589
  - Hyphantria cunea, effects of simultaneous virus and microsporidian infections on. 7614
  - importance of selenium for growth of. 3528
  - of Laspeyresia pomonella, oxygen-consumption

**Larvae, contd.,**
    during infection by Beauveria bassiana. 1060
  of Rana pipiens, simple method for removal of protozoan parasites from. 1068
  of silkworms, detection of destruxins in after infection with Metarhizium anisopliae. 3701
  of Tephritidae, protein products for rearing. 7691
**Larval diets,** of sandfly, liver and yeast as. 3104
**Larval population,** of Anopheles crucians in Louisiana ponds, incidence of Coelomomyces in. 5651
**Laser,**
  destruction of cellular components in pigmented protozoa by. 6114
  as micromanipulator in biology and medicine. 6158
**Laser light,** spectral analysis of after scattering from motile microorganisms. 1833
**Laspeyresia pomonella,** infected by Beauveria bassiana, oxygen-consumption in larvae of. 1060
**Latent phase,** in Achyla flagellata, variations in under the influence of $H^+$ ion concentration. 2109
**Lateral-line canals,** of a gizzard shad, algae in. 3244
**Latex agglutination test,**
  for amoebiasis in adults, preliminary reports. 952
  comparison with complement fixation tests for the diagnosis of Chagas' disease. 1578
  comparison of with and immunodiffusion test in the diagnosis of systemic candidiasis. 4970
  for cryptococcosis, control for rheumatoid factor in. 2123
**Latex beads,** exocytosis of during encystment of Acanthamoeba. 1927
**Latitude (high),** occurrence of phytoplankton at. 4713
**Lattice bodies,** of Ascobolus apothecial cells, effects of fixatives on. 4325
**Launaea asplenifolia,** structure of during infection with Puccinia butleri. 1120
**Laurefucin,** from Laurencia nipponica. 3408
**Laver,**
  correlation between the chemical composition of and environmental factors. 1355
  effect of amino acids on growth of. 3348, 3349
  effect of trace elements on growth and nitrogen content of. 3568
**Lawn grass diseases,** control of without fungicides by removal of mower clippings. 2341
**Leaching (fungal),** of titanium from rock. 1831
**Leaf,**
  of apple seedlings, influence of powdery mildew infection of $^{35}S$ and $^{45}Ca$ accumulations in. 1112
  of azalea, comparative pathogenicity of Calonectria theae and Cylindrocladium scoparium to. 7629
  of barley, infected with powdery mildew, decrease in chloroplast content of. 3759
  of Beta vulgaris, effect of pollen on the fungal microflora of and infection of by Phoma betae. 6554
  of coffee, control of disease of in southern India. 1119
  of cotton, succession of fungi on. 3274
  of oak, correlation of isolability of pathogen of with wilt and vascular water flow resistance in. 1102
  of pasture plant, effect of substituted benzimidazoles on Pithomyces of. 5122
  of peach, penetration of by Monilinia fructicola. 3753
  of Phaseolus aconitifolius infected by Colletotrichum truncatum, changes in chlorophyll a and b contents in. 4577
  of Populus tremula, aromatic substances in as inhibitors of mycorrhizal fungi. 1795
  of potato, effect of fungicides on microflora of. 7621
  of potato, infected by Phytophthora infestans, localization of photosynthetic products in. 2317
  of potato, reaction of to infection by Phytophthora infestans in relation to position on plant. 2316
  of spring barley, survey of diseases of in England and Wales. 5080
  of tomato, conditions of infection by Phoma destructiva in. 2375
  of wheat, ultrastructural alterations in chloroplasts of after infection with black rust. 1768
**Leaf anthracnose,** of Ficus elastica, experimental studies on. 5746
**Leaf blight,** resistance of onion to. 1774
**Leaf blight (yellow),** of corn, comparison of isolates causing. 3077
**Leaf blight-infected corn (southern),** trichotoxin A from Trichoderma viride isolated from. 3392
**Leaf blotch (Glomerella),** in apple, genetic susceptibility to. 2326
**Leaf blotch (speckled),** caused by Septoria tritici, sources of resistance in wheat to. 5127
**Leaf blotch pathogen,** of barley, technique for cryogenic storage of. 945
**Leaf disease,** of black currant, effectiveness of benomyl for control of. 2997
**Leaf disease control,** and yield increase in alfalfa with fungicides. 6974
**Leaf diseases,**
  of forage crops in Central and North Alberta, losses from. 2383
  in semi-arid areas, relation to irrigation. 494
**Leaf diseases (fungus),** in Fiji, susceptibility of banana to. 6915

- **Leaf extract (deproteinized),** as substrate for fungal growth. 1594
- **Leaf-inhabiting fungi,** in Australia. 1951
- **Leaf-inhabiting Pyrenomycetes,** of West Bengal. 1949, 2543
- **Leaf roll,** new high-yielding potato resistant to. 1784
- **Leaf roll virus of pea (false),** transmission experiments with. 4542
- **Leaf scald,** of rice in West Africa. 5125
- **Leaf shedding stage,** in maize incited by Sclerospora sorghi. 5717
- **Leaf spot,**
  - of apple, caused by Marssonina. 516
  - on artichokes. 3025
  - banana, proposed international scale for estimation of intensity of. 933
  - of Bermuda grass incited by Helminthosporia in India. 5747
  - Colletotrichum gloeosporiodes incitant of. 4574
  - caused by Colletotrichum gloeosporioides in Nimbu. 510
  - of celery, method of assessment of in relation to fungicide evaluation. 944
  - in Gmelina. 3030
  - of maize incited by Curvularia clavata. 4578
  - of Talauma hodgsoni, association of Phyllosticta cycadina and Sordaria papillosa in. 517
- **Leaf spot (Cercospora),**
  - increase of in sugar beets and periodicity of spore release. 7652
  - new record of in bajra in India. 507
- **Leaf spot (Curvularia),** of cotton in Maharashtra state. 7658
- **Leaf spot (Helminthosporium and Cercospora),** recognition and control of. 3055
- **Leaf spot (Ramularia),** reaction of wild Carthamus to in Israel. 1765
- **Leaf spot (Septoria),** of tomato, effect of intensity and quality of light on peroxidase activity associated with. 1783
- **Leaf spot (winter),** of Eucalyptus regnans seedlings, relation to forest litter. 5743
- **Leaf spot development,** of strawberry, temperature effect on. 6914
- **Leaf spot epidemics (Cercospora),** on sugar-beets in Texas-New Mexico high plains. 3028
- **Leavening,** of baker's yeast $\alpha$-glucosidase. 5987
- **Lecithin,** in Anabaena variabilis, involvement in linoleate synthesis. 1464
- **Lectin specificity,** induced by a fungus. 5598
- **Ledermycin,** treatment of experimental Toxoplasma gondii infection with. 1091
- **Legumes (tropical),** and vesicular arbuscular mycorrhiza. 1172
- **Leiostomus xanthur,** Kudoa from. 6477
- **Leiphaimos,** phylogeny and ecology of. 2400
- **Leishmanial activity (anti-),** of immune guinea-pig serum. 6791
- **Leishmaniasis,**
  - atypical chronic skin. 1033
  - epidemiology of. 1643
  - clinical aspects of with reference to the USSR. 1701
  - control of. 1639
  - distribution of in the Old World. 1644
  - epidemiology of. 412
  - in Ethiopia. 987
  - in the French territory of Afars and Issas. 1700
  - of hamsters and mice, effect of cortisone on. 5669
  - immunodiagnosis of. 365
  - immunology of. 1658
  - reptiles and their importance in the epidemiolog of. 1638
  - susceptibility of reptiles to. 469
  - in the USSR, natural focality of. 1640
  - work of the World Health Organization in. 2848
- **Leishmaniasis (American).** 1642
- **Leishmaniasis (canine),** in Senegal. 7591
- **Leishmaniasis (cutaneous),** 1034
  - followed by Kala Azar in Adults in Italy. 3656
  - follow-up study of vaccination programme against. 6793, 6794
  - in Iran, epidemiology of. 7493
  - treatment with sulphanilamide. 470
  - use of sentinel animals in epidemiological studies of. 986
- **Leishmaniasis (cutaneous-mucous),** in Chad. 6832
- **Leishmaniasis (diffuse, infiltrating),** of the nose. 6273
- **Leishmaniasis (enzootic cutaneous),**
  - in eastern Panama. 4963
  - infection among forest mammals in eastern Panama. 411
- **Leishmaniasis (experimental cutaneous),**
  - effects of immunosuppression and antigenic competition on the course of infection with in guinea pigs. 4505
  - effect of thymectomy on the course of infection of CBA mice with. 4506
- **Leishmaniasis (Mediterranean visceral),** and its immunological diagnosis. 5671
- **Leishmaniasis (mucosal and visceral),** case of. 5023
- **Leishmaniasis (visceral),**
  - in Iran. 4466
  - in London. 2251
- **Leishmaniasis (zoonotic cutaneous),**
  - infection of great gerbils with the agent of in the Karakalpak ASSR. 4507
  - natural foci of and its relationship to regional morphology. 1641
- **Leishmaniasis meningoencephalitis,** experimental model of. 1069
- **Lentic habitats,** method of collecting periphyton in. 3521
- **Leopard,**
  - Babesia pantherae of. 5684

**Leopard, contd.,**
  in India, trypanosomiasis in. 6878
**Leopard (clouded),** nosematosis in. 1747
**Lepidocyrtinus,** eating the colony of tobacco powdery mildew on tobacco leaves. 5287
**Lepidoptera,** in Japan, Beauveria bassiana isolated from. 6868
**Leprosy,** work of the World Health Organization in. 2848
**Leptomonads,** susceptibility of reptiles to infection with. 469
**Leptospermum,** endogonaceous mycorrhizas synthesized in. 1173
**Lesion formation (runner),** relationship to helminthosporoside in sugarcane leaves infected by Helminthosporium sacchari. 6065
**Lesion size,** effect on sporulation of Peronospora manshurica. 882
**Lethal interaction,** following plasmodial fusion between 2 Physarum polycephalum strs. 6758
**Lethal mutant (conditional),** of Schizosaccharomyces pombe. 1619
**Lethality,** in Saccharomyces cerevisiae, induction of by exposure to radiation in air and nitrogen atmospheres. 899
**Lettuce,**
  control of Sclerotinia infection of. 6338
  eradication of seed-borne Septoria lactucae from with aerated steam. 5754
  studies on method of carry-over of downy mildew in. 1093
**Lettuce breeding,** downy mildew immunity as genetic marker for. 2204
**Lettuce downy mildew fungus,** sources of immunity from race 5 and 6 of. 2315
**Leucaresone,** treatment of amoebiasis with. 2911
**Leucine,** effect on $H_2S$ production by yeasts. 868
**L-Leucine,** utilization of as nitrogen source by fungi. 7471
**Leucine tRNA,** nucleotide sequence of. 715
**Leucine-lysine synchronization,** of Allomyces germlings. 794
**L-Leucine + DL-tryptophan + L-glutamic + DL-aspartic acids,** utilization by storage rot fungi. 1597
**Leucocyte chemotaxis test,** comparison with a cellular slime mould chemotaxis test. 928
**Leucocyte component therapy,** malaria transmission by. 3679
**Leucocyte counts (peripheral),** during long-term administration of combined folic inhibitors. 4487
**Leucocytes,**
  from malaria-infected monkey blood, centrifugal elutriation for the removal of. 954
  patterns of antinuclear antibody fluorescence in. 7512
  response of in acute malaria. 1716
**Leucocytes (circulating),** simple method for evaluation of phagocytic activity of. 5531
**Leucocytes (eosinophilic),** phagocytosis of Candida albicans by. 5475
**Leucocytes (human peripheral),** engulfing and killing of Cryptococcus neoformans by. 6699
**Leucocytes (mouse peripheral blood),** role of complement in phagocytosis of Candida albicans by. 2207
**Leucocytes (peroxidaseless chicken heterophile),** microbiocidal activity of. 4297
**Leucocytes from HL-A compatible sibling,** treatment of chronic mucocutaneous candidiasis with. 2884
**Leucocytosis,** after Cleoquinol therapy. 451
**Leucocytozoonosis,** susceptibility of gallinaceous birds to. 3719
**Leukaemia,**
  cell wall deficient Actinomyces complicating 2 cases of. 448
  combined with Pneumocystis carinii pneumonia, 2 autopsy cases and literature review. 1053
**Leukaemia (acute),**
  anti-candida antibodies in patients with. 1000
  multiple pulmonary aspergillomas in. 2227
**Leukaemia (acute childhood),** constrictive esophagitis due to Candida albicans in. 6252
**Leukaemia (childhood),**
  fatal infections in. 6255
  pneumocystis carinii pneumonia in the course of. 3686
**Leukaemia (chronic lymphocytic),** antiproliferative effect of Cryptococcosis in. 842
**Leukaemia (chronic lymphoid),** with disseminated cryptococcosis. 4455
**Leukaemia (lymphoid),** resistance of AKR mice to associated with chronic protozoan infection. 1664
**Levorin,** of Actinomyces levoris, incorporation of radioactive precursors into. 243
**Life cycle,**
  of Bangiophyceae. 3884
  of Bryopsis, from different points along the European coasts. 1264
  of Bryopsis halymeniae. 7098
  of Callophyllis firma in laboratory cultures. 7105
  of Chondrus crispus in culture. 6492
  of Chroococcidiopsis. 7096
  comparison of Liagora tetrasporifera and L. disenta. 74
  of Coscinodiscus asteromphalus. 1261, 1262, 1263
  of Ectocarpus fasciculatus. 5869
  of Eimeria schamchorica, endogenous stages of. 3232
  of Eimeria tenella in cell culture. 7132
  of Eimeria vermiformis from the mouse, completion of life cycle of in dexamethasone-treated rats. 5257
  of Eimeria vermiformis, in the mouse and

**Life cycle, contd.,**
  dexamethasone-treated rats. 2296
  of Elachista stellaris in culture, observations on. 7103
  of Gloiosiphonia capillaris in culture. 611
  of Gracilaria verrucosa in vitro. 5875
  of Gregarina embiae parasitic in Monotylota ramburi and Haploembia splieri. 7133
  of Hepatozoon domerguei. 3230
  of Hepatozoon griseisciuri, role of Haemogamasus reidi in. 6512
  of Hepatozoon rarefaciens. 1930
  of Hexamastix termitis during imago moult of the yellow-necked termite. 3229
  of Klosiella mabokensis, in African Muridae. 1931
  of Mattesia oryzaephili from Oryzaephilus surinamensis. 7604
  of Membranoptera multiramosa in culture. 5876
  of Ophryoglena mucifera, localization of acid phosphatase activity during different stages of. 2643
  of Peridermium ephedrae, and nuclear condition. 6503
  of Phaeophyceae. 3958
  in Phyllophora truncata. 3207
  in Phyllophoraceae. 5879
  of Pikea californica. 2483, 3137
  of Plasmodiophora brassicae. 3214
  of Pneumocystis in human pneumocytosis. 5895
  of Puccinia sporoboli var. robusta and P. subnitents. 626
  of Saccharomyces cerevisiae, sensitivity in various phases of to induction by acriflavine. 6122
  of Sarcosporidia. 4709
  of Sarcosporidia tenella. 3986
  of Schizosaccharomyces pombe. 1919
  of Tetralonia lanuginosa in relation to fungal infection. 6301
  of Toxoplasma. 5258
  of Toxoplasma gondii. 5259
  of Trypanosoma. 104
  of Trypanosoma brucei, occult visceral phase of mammalian trypanosomes with reference to. 3980
  of Trypanosoma cruzi. 1286
  of Trypanosoma cruzi, in the invertebrate host. 3981
  of Turnerella pennyi. 7107
  of Urospora mirabilis from Muroran. 6490
**Life cycle (diploid),** of Allomyces arbuscula, protein and RNA synthesis during. 6034
**Life cycle (vegetative),** of Volvox aureus M5, nucleic acid synthesis during. 5943
**Life forms,** of fungi. 5896
**Ligand interactions,** with yeast aldehyde dehydrogenase. 2612
**Light,**
  action spectrum for induction of sexual reproduction in Leptosphaerulina trifolii by. 6666
  adaptation in microbenthic algae from the Øresund to. 1313
  control of fatty acid and lipid biosynthesis in Euglena gracilis by. 4166
  dependence of carotenoid synthesis in Fusarium aquaeductuum on. 7246
  dependence of primary phytoplankton production on. 2078
  effect on appearance of methylated RNA of Euglena gracilis cells grown in the dark. 1359
  effect of carbon/nitrogen ratio on photomorphogenesis of Aspergillus giganteus. 6645
  effect of $CO_2$ and pH on $^{32}P$-labelling of polyphosphates and organic phosphates in Ankistrodesmus braunii in. 2710
  effect on colonization and sporulation of Botrytis on geranium. 5094
  effect on Conidia formation by Cercospora beticola on sugar beets. 4257
  effect on corticolous lichens. 670
  effect of on cultural differences between races T and O of Helminthosporium maydis. 7375
  effect on development of Clathrospora. 1272
  effect on development of Euglena chloroplasts. 5235
  effect on fatty acid composition of Acetabularia mediterranea. 2019
  effect on Fucus virsoides. 3447
  effect of glucose uptake by Cyclotella cryptica. 2808, 3436
  effect on growth of Aspergillus and its production of aspergin. 885
  effect on heterocyst production in Anabaena doliolum. 4696
  effect on hülle cell and aleuriospore formation in Aspergillus. 2728
  effect of intensity and quality of on peroxidase activity associated with Septoria leaf spot of tomato. 1783
  effect of intensity of on sporulation of Botryosphaeria ribis. 1512
  effect on intra-mitochondrial granules in Physarum polycephalum. 3448
  effect on killing of Anabaena doliolum by UV radiation. 896
  effect on nucleic acids, protein and carotenoids of Verticillium agaricinum. 1528
  effect on oxygen evolution in Chlorella pyrenoidosa. 3439
  effect of on perithecial production in Glomerella cingulata. 7366
  effect on pH in cell suspensions of Anabaena variabilis and Synechocystis aquatilis. 3433
  effect on Pilaira anomala. 3849
  effect on resting potential and cation activity in vacuole sap of Nitella cells. 2060
  effect on Schizosaccharomyces pombe. 4250

**ght, contd.,**
- effect on sexual stage in Nectria haematococca. 4273
- effect on sporulation of Alternaria solani. 4856
- effect of on sporulation of Epicoccum nigrum in vitro. 6675
- effect on symptom development and sporulation of Guignardia citricarpa on Citrus sinensis. 4245
- effect on taxonomic characters of Diplodia. 3466
- effect on marine phycomycetes. 1509
- effect on sterol biosynthesis in Euglena gracilis. 2670
- effect on uptake of thallium by Chlorella. 2058
- endogenous rhythm of the productivity in Chlorella and the influence of. 6082
- importance of str and composition of medium in the induction of circadian rhythm in zonation of Neurospora tetrasperma by. 4850
- induction of conidiation in Trichoderma by. 2501
- induction of coremia-zonation in Penicillium claviforme mutants by. 2074
- induction of size change in Chlorella by. 1505
- interaction with inorganic nitrogen in controlling nitrogen uptake in the sea. 5464
- mimicking effect of acetylcholine on morphogenesis in Trichoderma. 308
- regulation of Perithecium development and maturation in Pleospora herbarum by. 1275
- regulation of photosynthesis in Chlorogonium elongatum under the influence of. 2038
- spectral sensitivity distribution of oogonium evacuation in Dictyota induced by. 1507
- stimulation of flagellar activity of colony members of Volvox aureus. 298
- synthesis of NADP-dependent triosephosphate dehydrogenase in Chlorella variegata independent of. 4088

**ght (560μ),** induction of sexual reproduction in Leptosphaeria avenaria f. sp. triticea by. 2073, 3482

**ght (blue),**
- enhancement of oxygen uptake in Chlorella by. 296
- reproduction induced by in Laminaria saccharina female gametophytes. 5462

**ght (continuous),** modification of the infrastructural appearance of Vaucheria sphaerospora chloroplasts on after. 7046

**ght (continuous and light-dark cycles),** in vivo activity of chloroplasts of Acetabularia in. 6659

**ght (diminished),**
- ultrastructure of Closterium acerosum plastids cultivated in. 565
- ultrastructure of Closterium acerosum pyrenoids cultured in. 566

**ght (far-red),** induction of afterglow in leaves of Elodea and glucose uptake in Chlorella by. 3441

**Light (monochromatic),**
- effect on ascorbate photo-oxidation by a photochemically active chromoprotein from Anabaena cylindrica. 2688
- effect of on the extracellular excretion of glycolate and photorespiration in Anacystis nidulans. 6658

**Light (red and blue),**
- changes in enzyme activities of Chlorogonium elongatum in response to. 6660
- effect on photosynthesis of Acetabularia mediterranea and on the distribution of assimilated carbon. 4234
- growth of Dictyota dichotoma in. 299

**Light (sinusoidally modulated),** effect on membrane potential of Acetabularia. 1504

**Light (sun),** phototoxic syndrome induced in mice by exposure to. 1730

**Light (visible),** effects of on fruit-body development in Trametes extenuatus. 7371

**Light (white),** effects of on the early phase of gametogenesis in Phytophthora palmivora. 5469

**Light activation,** of $Mg^{2+}$-dependent ATPase in isolated Euglena chloroplasts. 4089

**Light climate (underwater),** as a controlling factor in the production ecology of freshwater phytoplankton. 7155

**Light coagulation,** in histoplasmic choroiditis. 428

**Light conditions,** ionic relations of Hydrodictyon reticulatum in relation to. 6085

**Light conditions (various),** measurement of illumination rate when investigating rate of photosynthesis of unicellular algae under. 3522

**Light /dark,** relation between the carbon dioxide fixation in by marine algae. 4152

**Light-grown Euglena gracilis,** chloroplast RNA populations in. 1360

**Light harvesting system,** of greening of Chlamydomonas reinhardtii y-1 cells, relationship to photosynthetic electron transfer chain. 5426

**Light induced aggregation,** in Polysphondylium pallidum, action spectrum of. 7363

**Light-induced encystment,** of Blastocladiella emersonii zoospores. 3451

**Light-induced fluorescence changes,** in Chlorella. 6083

**Light-induced inhibition,** of respiration in DCMU-poisoned Chlorella caused by photosystem I activity. 4235

**Light-induced primordium formation,** in Favolus arcularius, action spectrum for. 3971

**Light-induced reduction,** in specific activity of malate enzyme in Euglena gracilis. 7356

**Light intensity,**
- effect of on vertical distribution and growth of assemblages of attached estuarine diatoms.

**Light intensity, contd.,** 7350
  interaction of with DDT concentration on Nitzschia delicatissima. 5455
  kinetics of chlorophyll a and Plastoquinone A from Synechococcus lividus in relation to changes in response to. 7349
  simulation model of lichen productivity as function of. 5292
**Light intensity (different),** seasonal variations of Petroglossum nicaeense pigments at. 6074
**Light reactions,**
  in the control of oospore germination of Chara delicatula. 878
  of Phormidium. 2428
**Light sensitivity,**
  in Chlamydomonas reinhardtii, analysis of interaction of mutants for. 4943
  in Chlamydomonas reinhardtii, investigations of the pattern of inheritance of mutations of. 2152
**Light shock,** failure to condition Tetrahymena to. 2082
**Light treatment,** effect on root-region microflora. 3815
**Lignin,**
  from downy mildew-infected Japanese radish root, nature of. 5711
  formation and biological degradation of. 3420
**Lignin (activated),** adsorption of sporidesmin by. 6643
**Lignolytic activity,** of wood-destroying fungi. 7701
**Lignosulphonates,** fungal degradation of in solid media. 4213
**Ligurian Sea,** distribution of phytoplankton in. 4723
**Limax amoeba,**
  N-acetylmuramidase from, action on the murein of Proteus mirabilis. 188
  epidemiological study of the incidence of in military communities. 6221
**Limb dieback (Ceanothus),** in California, apricot pathogen associated with. 2325
**Limestone (lower Kaladgi),** occurrence of algal stromatolite from. 5271
**Limestone (Mao Adentro),** planktonic foraminifera of. 7195
**Limestone (Syringothyris),** occurrence of fossil algae from. 5273
**Limnological assessment,** of eutrophic shallow lakes according to their biomass. 3235
**Limnological characteristics,** of north and central Florida lakes. 6516
**Limnological research (fundamental),** application of in water supply system design and management. 5171
**Limnology,**
  of lakes in the Netherlands. 4010
  of Mecklenburg lakes. 6536
**Limnology (physical),** of a Taiga lake. 7160
**Limnology (physical-chemical),** relation to surface phytoplankton on Lake Rexoma. 5920
**Limonene,** toxicity of to Guignardia citricarpa. 4288
**Limoniidae,** attacking Agaricales in Hungary, systematic and ecological studies on. 6546
**Limpit (marine),** Urceolaria viridis and symbioti green algae from. 70
**Lincomycin,** in the treatment of pulmonary mycoses. 2241
**Lincomycin analogues (chlorinated),** activity of against chloroquine-resistant falciparum malaria in owl monkeys. 3740
**Linkage groups,** of Peterhof breeding stocks of yeast, identification of. 969
**Linoleate synthesis,** in Anabaena variabilis, involvement of lecithin and monogalactosyl diglyceride in. 1464
**Lion,**
  experimental Trypanosoma brucei infection in 3708
  isolation of trypanosoma from. 1732
**Lip (lower),** hyperkeratinized moniliasis of the pseudopithelium of. 6254
**Lipase,**
  effect on spinach and Chlamydomonas chloroplasts. 2711
  effect of unsaponifiable matter from Hizikia fusiformis on. 724
  of Humicola lanuginosa, studies on. 7249
**Lipase (bile-sensitive),** studies on. 4094
**Lipase (exocellular),** of Rhizopus arrhizus, studi on. 4095
**Lipase activity,** of some yeasts. 4116
**Lipid,**
  of Acanthamoeba palestinensis, assembly of. 831
  in Acanthamoeba palestinensis membranes, assembly of. 830
  association of with cytochrome oxidase from yeast mitochondria. 4811
  of Basidiomycetes. 3374
  of conidia, mycelium and yeast-like forms of Paecilomyces viridis. 5516
  of Cyanidium caldarium. 3368
  effect of some inhibitors of respiration on growth and the formation of by Lipomyces starkeyi. 7367
  effect on recovery of Candida albicans from U light. 3488
  in Entamoeba histolytica, cytochemical comparison of distribution of in axenic vs. monoxenic growth. 2005
  of Fusarium culmorum mycelium. 1470
  from green algae, quantitative extraction of. 2669
  of Histoplasma capsulatum and Blastomyces cermatitidis. 234
  of Humicola grisea var. thermoidea. 1471
  intermediate in yeast mannan biosynthesis. 2
  of mould, production of. 6055

- **pid, contd.,**
  - of Plasmodium knowlesi-infected rhesus monkey, studies on. 2972, 2973
  - in Saccharomyces cerevisiae, effect of antibiotics on synthesis of. 330
  - of Tetrahymena pyriformis, structural studies on. 4816
  - of Trigonella, changes in after infection with Peronospora trifoliorum. 1094
  - from yeast grown on hydrocarbon substrates, complete extraction and separation of. 4815
- **pid (diol),** separation of from Candida tropicalis 'K' grown on n-heptadecane. 4172
- **pid (ether-containing),**
  - from Physarum polycephalum, biosynthesis rate. 229
  - from Physarum polycephalum, characterization and quantification of. 230
- **pid (extracellular),** formation of by yeasts isolated from peat. 7299
- **pid (glyco),**
  - from Aspergillus niger. 5406
  - in baker's yeast cell envelope fractions, occurrence of. 1466
  - from Candida bogoriensis, glucosyl- and acetyltransferases involved in the biosynthesis of. 5351
  - presence of in Chlorophyceae. 5397
- **pid (inositol-containing yeast phospho),**
  - incorporation of 2-deoxyglucose into. 2672
- **pid (inositol and phosphorus containing),** in Saccharomyces cerevisiae, turnover of. 7295
- **pid (marine algal),** component fatty acids of. 4167
- **pid (naturally occurring plant),** as stimulants of rhizomorph production in Armillaria mellea. 4252
- **pid (phospho),**
  - reversal of mycobacillin inhibition reactions by. 2752
  - of Blakeslea trispora, production and composition during growth on n-alkanes. 231
  - in Uromyces phaseoli uredospores, identification and localization of. 2674
  - in Uromyces phaseoli uredospores, metabolism of during germination. 2675
- **pid (phosphono-),** from Tetrahymena pyriformis, isolation of. 246
- **pid (polar and neutral),** thermophilic and mesophilic fungi, fatty acid composition of. 1474
- **pid (sphingo),** of Tetrahymena, $\alpha$-hydroxy fatty acids in. 5412
- **pid (spore),** and germination in Agaricus bisporus. 1467
- **pid (sporophore),** of Agaricus bisporus, biosynthesis of. 5404
- **pid (surface and wall),** of some fungal spores, fatty acid and hydrocarbon constituents of. 6629
- **Lipid (total and phospho),** in grannary weevils. 4035
- **Lipid (total, polar and neutral),** of Rhizopus arrhizus. 7293
- **Lipid biosynthesis,**
  - in Euglena gracilis, control of by ammonia, light and DCMU. 4166
  - in freshwater algae, mercury inhibition of. 3437
  - induced by oxygen in wild-type and petite yeast, effects of chloramphenicol isomers and erythromycin on. 5502
  - in Neurospora crassa, effects of mutations and growth conditions on. 1465
- **Lipid biosynthesis (mycological),**
  - 'dibis' as substrate for. 7472
  - from Iraqi date extract. 6058
- **Lipid biosynthesis (phospho),** in Saccharomyces cerevisiae, in vitro studies of. 3373
- **Lipid composition,**
  - of some (+) and (-) strs of Cunninghamella. 5400
  - of Fucus vesiculosus. 2671
  - of protoplastic and mitochondrial membranes of Saccharomyces cerevisiae, influence of carcinogenic carbides on. 4291
  - of Saccharomyces cerevisiae, influence of growth temperature on. 4812
  - of Tetrahymena pyriformis membrane systems. 2676
  - of Verticillium albo-atrum. 2023
  - of yeasts, influence of glucose concentration on. 5470
  - of yeast grown on highmoor peat hydrolysates, influence of pH of the medium on. 6052
- **Lipid composition (comparative phospho),** of adult female Xyleborus ferrugineus and its mutualistic fungal ectosymbionts. 6057
- **Lipid composition (fractional),** of Trypanosoma in cultures. 5410
- **Lipid composition (phospho),** of fungi mutualistic with Xyleborus ferrugineus. 4174
- **Lipid fraction,** of Trichothecium roseum mycelium, constituents of. 4177
- **Lipid hydrolyzates,** of yeast cultured in medium containing L-rhamnose, diols from. 7297
- **Lipid metabolism,**
  - of Agaricus bisporus. 5404
  - of Tetrahymena pyriformis, effect of iron on. 1601
  - in yeast, effect of pantothenic acid deficiency on. 4247
- **Lipid oxidation,** influence of herring-micro-organism on. 4170
- **Lipid peroxidation activation,** in yeast, changes in in cellular senescence caused by carbon-source starvation. 7468
- **Lipid status,** effect of on cytoplasmic and mitochondrial protein synthesis in anaerobic cultures of Saccharomyces cerevisiae. 7268
- **Lipid transport (altered),** during aflatoxicosis. 5654

**Lipolysis,** by Mucor lipase, action pattern and mechanism of. 4094
**Lipolytic activity,** of dermatophytes. 5407
**Lipolytic enzymes,** activity of Penicillium caseicolum in the production of. 4786
**Lipolytic organisms,** enumeration of in food. 7697
**Lipophilic substance,** from Chlorococcum ellipsoideum and Chlamydomonas globosa. 5940
**Lipoprotein complex,** of yeast envelope growth in media with different carbon sources, study of. 4171
**Liposomes ($\beta$-fructo-furanosidase-containing),** injected into rats, lysosomal localization of. 7242
**Liquefaction,** of soft fruits, utilization of fungal enzymes in. 4122
**Liquid holding (negative),** in some UV sensitive mutants of yeast, quantitative analysis of. 7384
**Liquid holding post-treatment,** after UV light exposure of Saccharomyces cerevisiae, genetic implications of. 4278
**Liquid holding recovery,** role of protein synthesis in yeast in. 7383
**Liquid phase,** growth models of cultures with. 6729, 6730
**Litchi chinensis,**
  Cephaleuros virescens on leaves and stems of. 5188
  Rhizophagus in mycorrhizal association with. 1793
**Litmocidine,** biosynthesis by Streptomyces litmocidini, effect of carbon and nitrogen on. 379
**Litter,** of poultry, toxigenic fungi from. 7009
**Litter decomposition,** effect of organo-mercury fungicides on. 907
**Littoral,**
  of a eutrophic lake, production of benthic microalgae in. 2518
  interactions of epiphytic algae and bacteria on macrophytes in. 111
  Mazurian lakes, mass appearance of algae in. 7168
  of the sea, dissolved carbohydrates of some biotopes in. 5912
**Littoral (Argentine),** phytogeographical outline of the marine vegetation in. 4015
**Littoral (Brazilian),** psamophylic ciliates of. 6561
**Littoral (supra),** in the White Sea, ciliates of. 1354
**Littoral ecology (sub),** of West Island, South Australia. 3250, 3252
**Littoral marine algae (sub),** of Argyll, direct observations on. 7166
**Littoral and sublittoral zonation,** at Teneriffe, observations on. 3248
**Littoral vegetation,** at Lake Mjörn in western Västergötland. 5294
Liver,
  amoebiasis of. 5642
  amoebiasis of in Ceylon. 3664
  amoebiasis of, radiological changes in. 455
  amoebiasis of, serological diagnosis of by the indirect fluorescent antibody test. 1038
  amoebic abscess of. 2917, 6842
  amoebic abscess of in Korea. 5643
  amoebic abscess of presenting a space occupyi lesion of the right kidney. 2915
  amoebic abscess of in situs invertus of. 4477
  amoebic proctocolitis and abscess of in a neonate. 4480
  association of invasive amoebiasis of, with other diseases. 2920
  biopsy and the diagnosis of malaria. 7498
  in blue foxes, infection of with toxoplasma. 175
  Budd-Chiari syndrome caused by amoebic abscess of. 2923
  56 cases of multiple amoebic abscess of. 3659
  of chick embryo, electron microscopic study o Eimeria tenella grown in. 5226
  of chickens, changes in the total, residual and protein nitrogen content in during experimental coccidiosis. 3731
  cholestasis in patients with amoebic abscess of. 2916
  clinical aspects of amoebiasis abscess in children in. 3670
  diagnosis and treatment of rupture of amoebic abscess of into the pericardium. 6836
  dietary aflatoxins in cancer of. 4437, 4438, 44
  effect of sex and age on invasive amoebiasis in 2921
  efficacy of monensin or amprolium in the prevention of coccidiosis of in rabbits. 6886
  frequency of abscess of in hospitals of Mexican Institute of Social Security. 3604
  frequency of abscess of among private patients 3605
  of goat, nucleotide inhibition of UDPglucose 4-epimerase from. 2722
  haematological and biochemical response of amoebiasis in during specific therapy. 3673
  of hamster, lesions produced in with inoculati of axenically grown Entamoeba histolytica. 3716
  of hamster, use of amoebic abscess of as antigen material for fluorescent antibody test. 3615
  isolation of a distinct rifampicin-resistant RNA polymerase from mitochondria of. 722
  malignancy in natural and experimental cysts of. 1695
  metastases from caecal amoeboma to. 3674
  of mice, damage induced in by Penicillium viridicatum. 3058
  non-tropical amoebic abscess of. 6839
  pericardial amoebiasis following amoebic abscess of. 3660

**Liver, contd.,**
  period of scintigraphic resolution of amoebic abscess of. 2922
  peritonitis from amoebic abscess of. 6278
  of the rabbit, basement membrane in coccidiosis of. 3730
  of rats, decreased toxicity of phalloidin after partial removal of. 4178
  of rhesus monkey, changes in lipids of after Plasmodium knowlesi infection. 2972
  serological diagnosis of amoebiasis of by indirect fluorescent antibody test. 1711
  treatment of amoebiasis of with MK-910. 3662
  treatment of amoebic abscess of with metronidazole. 2924
**Liver (ethionine fatty),** prevention of development of pre-erythrocytic rodent malaria in. 5697
**Liver (precancerous),** of rat, loss of feedback control of cholesterol synthesis during treatment with N-2-fluorenylacetamide and aflatoxin. 7309
**Liver biopsy,** in Amanita phalloides intoxication, histologic changes in. 6808
**Liver cancer (human),** relation to dietary aflatoxins. 4953, 4954
**Liver injuries,** in hens, biological detection of mycotoxins causing. 2948
**Liver passage (hamster),** effect on virulence of Entamoeba histolytica to rats. 2955
**Liver scanning,** progress in in the study of amoebic hepatic abscess. 2800
**Liver and yeast,** as larval diets in colonization of a sandfly. 3104
**Lividomycin,**
  from Streptomyces lividus. 597
  from Streptomyces lividus, isolation and characterization of. 850
**Living forms,** among Foraminifera, detection of. 7455
**Lizard,**
  biological characters of Leishmania adleri from. 5222
  extrinsic development of trypanosomes of in Californian sandflies. 131
  insect flagellates from faeces and gut contents of. 2951
  of Japan, Eimeria from. 1348
  occurrence of Schellackia and Plasmodium in. 134
  susceptibility to infection with leishmaniae and leptomonads. 469
**Lizard ('Jesu Cristo'),** malarial parasites of. 4054
**Lizard (rock),** shifts in the haemoglobin and total protein concents in the haemogregarine-infected erythrocytes of. 7602
**Lobo's disease,** study of fungi isolated from cases of. 1009
**Locomotion,**
  in Ameobae. 3853
  and basal movements in Amoeba proteus. 1201
  of ciliates, effects of sinusoidal currents with 16-25,000 Hz frequencies on. 4866
  helical movement of flagellates in. 555
  of Trichomitopsis termopsidis. 553
**Locomotion (polymorphonuclear leucocyte),** effect of cytochalasin B on. 7314
**Locomotor pressure,** of myxomycete plasmodium, effect of anaesthetics on. 4849
**Locus,** for resistance to polyene antibiotics in yeast. 1631
**Locus ($ad_2$),** in Saccharomyces yeast, structure of. 6205
**Locus (ade3),** in Saccharomyces cerevisiae, fine structure analysis of. 4948
**Locus (arg7),** in Chlamydomonas reinhardtii, complementation at. 5570
**Locus (fungus mating type),** dominance at. 6211
**Locus (Ml-a),** in barley conditioning resistance to Erysiphe graminis f. sp. hordei, recombination at. 6909
**Locus (ura2),** in Saccharomyces cerevisiae, fine structure of. 1610
**Locus (84W),** of Ascobolus immersus, multiple recombinational events within. 1604
**Loiasis,** nitroblue tetrazolium test in. 366
**Lomades N,** microbial skin diseases treated with. 3646
**Lomasomes,** in Poria monticola. 3165
**London,** visceral leishmaniasis in. 2251
**Longevity,** of Chaetomium thermophile var. coprophile ascospores, effects of nutrients, temperature and relative humidity on. 2061, 2718
**Longifolene,** growth inhibition of mycorrhizal fungi of Pinus silvestris by. 3805
**Longwave spectral area,** mechanism of water decomposition and change of photoreduction into photosynthesis in algae in. 1487
**Looper (soybean),** in Louisiana, population dynamics and biotic controls of. 6872
**Loqat,** new disease of. 5751
**Lorica,** of Dinobryon, structure of. 1204
**Loris (slow),** trypanosome of. 6307
**Lucanthone,** microbiological transformation of. 6064
**Lucerne,**
  fungistatic activity of saponins of as related to sterols. 7397
  mechanism of vascular wilting in induced by Verticillium albo-atrum. 3065
  protein changes in the vascular wilt disease of caused by Verticillium albo-atrum. 6987
  study of original material and resistance of to bacterial and fungal diseases. 6959
**Luffa acutangula,** charcoal rot of. 5117
**Luminescence (porphyrin),** in Candida cells. 4219
**Luminescence method (photochemical),** variational processes in Lipomyces starkeyi yeast cells observed by. 4134

**Luminescence probe (sensitive bacterial),** for $O_2$ in biochemical system. 6156
**Luminescent particles (bio),** in Gonyaulax polyedra, physical identity of. 7084
**Lundy,** survey of the marine algae of. 6535
**Lung,**
- adiaspiromycosis in man caused by Emmonsia crescens in. 1690
- aetiology, course and treatment of aspergillomas of. 5608
- African histoplasmosis of. 6246
- allergic aspergillosis of. 5002
- allergy to precipitins due to Aspergillus fumigatus with interstitial fibrosis of. 3630
- alveolar proteinosis and cryptococcosis of in an adolescent boy. 4453
- amphotericin B dosage for chronic histoplasmosis of. 5628
- aspergilloma of. 1675
- aspergilloma of treated with corticosteroids. 5606
- aspergilloses of. 1673, 3628, 5605, 6248, 6811
- aspergillosis of with asteroid bodies in a disease similar to farmer's disease. 6288
- aspergillosis in childhood in. 6810
- of Ateles hidridus, anthracosis aspect of precocious fungic implantation in. 5000
- blastomycosis versus carcinoma of. 6250
- Candida serology in infection of. 433
- chemotherapeutic agents for mycoses of. 2241
- diagnosis of aspergillosis of by branchial brushing technique. 3544
- of dogs, thrombolytic treatment with Brinase $^{R}$ of experimental embolism of. 7243
- effect of adenosine, quinacrine and primaquine on. 4526
- effect of newer tubercle bacillus digestion and decontamination procedures of fungi causing diseases of. 5633
- equine emphysema of, caused by mould allergy. 7582
- fatal pulmonary candidiasis of. 4445
- frequency of digestive moniliasis in tuberculosis of. 3641
- fungus ball as manifestation of coccidioidomycosis in. 1669
- geotrichosis and candidiasis of. 2894
- of the horse, aetiology of chronic disease of. 5664
- hypersensitivity as cause of diseases of. 1654
- identification of Trichosporon cutaneum in silicosis of. 447
- immunofluorescent studies in patients with disease of. 4419
- infections of and deficient alveolar phagocyte function. 5613
- interstitial edema of in acute malaria. 2927
- in a joiner, apsergilloma grafted on a foreign body granuloma of. 5610
- laboratory diagnosis of mycoses of. 4461
- of laboratory mice, development of Emmonsia crescens into adiaspores in. 4707
- of laboratory mice, identification of parasitic forms of Emmonsia, Chrysosporium pruinosum and moniliaceous fungi from. 6865
- lack of involvement of in visceral cryptococcosi 4452
- local treatment of aspergillomas of. 5612
- medical therapy of aspergillosis of. 7525
- multiple aspergillomas in acute leukaemia in. 2227
- mycetoma of caused by Aspergillus. 3633
- mycosis fungoides of. 6269
- phycomycosis associated with lymphocyte depletion in. 427
- pleural effusion secondary to cryptococcosis of. 4456
- primary aspergillosis of with high fibrinolytic activity in aortic intima. 4988
- primary sporotrichosis of. 7552
- problems raised by aspergillosis of. 5609
- relationship of sensitivity of to extracts of Candida albicans. 999
- results of surgical management of 26 cases of aspergilloma of. 5611
- toruloma in. 2233
- toruloma in in France. 1688
- treatment of aspergilloma of with transparietal injections of Amphotericin B. 4999
- treatment of disease of caused by Candida in the sputum with Bay b. 5097
- treatment of infections in with trimethoprim-sulphamethoxazole association. 3634
- ultrastructure of Pneumocystis in. 5895

**Lung biopsy (percutaneous),** in Pneumocystis carinii pneumoniae. 1719
**Lung syndrome (white),** management of. 6251
**Lupin (dead),** pathogenicity of mouse lupinosis induced by fungus growing on. 3387
**Lupin baiting,** method for rapid differentiation of Phytophthora cinnamomi from other Phytophthora isolated from soil by. 7441
**Lupinosis,**
- caused by Phomopsis leptostromiformis, in sheep. 6296
- of mouse, induction of by fungus growing on dead lupins. 3387

**Lupus erythematosus,** toxoplasmosis as complication of corticosteroid- and cyclophosphamide treatment of. 2273
**Lupus erythematosus (systemic),**
- association of with haemobartonella-like organisms. 4478
- Cryptococcal meningitis as complication after treatment with systemic corticosteroids. 2892

**Lupus erythematosus-like syndrome,** occurrence of in the course of experimental Candida albicans infection in mice. 6291

**uteoskyrin,** chronic toxicity and carcinogenicity of in mice. 5046
**utzomyia,** enzootic cutaneous leishmaniasis in eastern Panama in relation to. 4963
**yase (isocitrate),**
  of Chlorella pyrenoidosa, temporal control of the de novo synthesis of during the cell cycle. 5321
  from Gloeomonas, regulation of. 1388
  in Polytomella caeca, localization of. 3308
  from yeast, role of phosphoenolpyruvate and 6-phosphogluconate in short-term control of. 4102
**yase (tyrosine ammonia),** in Sporobolomyces pararoseus, activity of. 1990
**ycium halimifolium,** identity of Phyllosticta destructiva and similar phoma-like fungi from. 2378
**ycopene,** of Oscillatoria princeps. 6049
**ycopersicon esculentum,** storage rot of caused by Geotrichum candidum. 3837
**ycopersicum,** infected with Phytophthora, phenolic reactions and the production of phytoalexine in. 4536
**ygus rugulipennis,** role of Beauveria bassiana in reduction of. 1059
**ymph nodes,** of guinea-pigs at various times after infection with Leishmania enriettii, histological appearance of. 6792
**ymph nodes (cervical and mediastinal),** cultural and morphological findings in at necropsy with reference to fungi. 4457
**ymphadenitis (toxoplasmic),** in Iraq. 3680
**ympho-reticulo-endothelial diseases (malignant),** cocomitant occurrence of with acquired toxoplasmosis. 1718
**ymphocyte ,** of rabbit, stimulation of in vitro by a protozoan factor. 2056
**ymphocyte (atypical),** occurrence of following intravenous injection of Candida albicans in mice. 1727
**ymphocyte (specifically sensitized),** in vitro induction of nonspecific resistance in macrophages by. 1008
**ymphocyte depletion,** pulmonary phycomycosis associated with. 427
**ymphocyte-mediated immunity,** in histoplasmosis. 997
**ymphoid cells (Theileria parva-infested bovine),** growth of in irradiated mice. 4527
**ymphoma,**
  experimental Candida albicans infection in mice. 6291
  mycosis fungoides associated with bullous lesions in. 1698
**ymphoma (reticulum cell),** bleomycin in.2244
**ysine,**
  defence reaction induced by in rust-infected wheat leaves. 5735
  in Neurospora crassa, role of in carnitine biosynthesis. 799
  in Saccharomyces, biosynthesis of. 1439
  in Saccharomyces, effect of hydroxylysine on the biosynthesis of. 1522
  in Saccharomyces, relationship among genes, enzymes and intermediates of the biosynthetic pathway of. 4138
  in Ustilago maydis, synthesis of. 1441
**L-Lysine,** in biological materials, enzymic determination of. 7451
**Lysine (available),** in Candida tropicalis, effect of dehydration on the content of. 6672
**Lysine (epsilon-N-trimethyl),** in respiratory deficient yeast, presence of in iso-1 and iso-2 cytochromes. 1445
**Lysine enriched synthetic medium,** for the growth of Blastocladiella emersonii. 1566
**Lysine-leucine synchronization,** of Allomyces germlings. 794
**Lysine pathway,** pattern of in prokaryotes and eukaryotes. 1434
**Lysine residues,** in Mucor miehei protease, modification of. 5970
**Lysine uptake,** by Trypanosoma cruzi, characterization of. 6621
**Lysis,**
  of an Aspergillus nidulans mutant blocked in chitin synthesis and relation to wall assembly and wall metabolism. 1626
  of blue-green algae, biological agents causing. 7345
  of Fusarium solani f. cucurbitae macroconidia in chitin-amended soil, relation to chlamydospore formation. 3978
  resistance and susceptibility of fungal spores to. 5480
  of yeast cells by Basidiomycetes, properties of enzyme. 743
  of yeast cells by Basidiomycetes, purification of enzymes causing. 744
  of yeast cells and erythrocytes by dimethylsulphoxide. 2097
**Lysis (microbial),** susceptibility of several basidiomycetes to. 5504
**Lysosomal enzymes,** modification of in macrophages in mice inoculated with purified Plasmodium berghei antigen. 5694
**Lysosomal localization,** of β-fructo-furanosidase-containing liposomes injected into rats. 7242
**Lysosome-like particles,** in Geotrichum candidum. 3172
**Lysosomes,**
  in Entamoeba histolytica. 3184
  of Microsporum gypseum, role in macroconidia germination. 5217
  in relation to the anti-malarial action of chloroquine. 2763
  of Tetrahymena pyriformis ST, sedimentation characteristics after chloramphenicol-inhibited growth. 921

**Lysozyme,**
  in Aspergillus oryzae, study of the number of sulphhydryl and disulphide groups in. 1442
  effect on cell wall morphology in Cylindrospermum. 1503
**Lysyl tRNA from yeast,** specificity of AAG codon recognition by. 1966
**Lytic activity,** of cell wall among microorganisms, distribution of. 7259
**Lytic activity (yeast cell),** and $\beta$-1, 3-glucanase produced from thermophilic fungi. 2591
**Lytic preparation,** from Streptomyces, method for obtaining yeast protoplasts using. 1555

M

**and B 8882,** effect on Chlorella pyrenoidosa growth. 5496

**ibres,** in Stentor, fine structure of before and after shortening. 5864

**caca fascicularis,** pathogenesis and immunological aspects of experimental histoplasmosis in. 6229

**caca mulatta,**
deep vascular schizogony of Plasmodium knowlesi in. 2308
infected with Plasmodium cynomolgi, destruction of erythrocytes in. 3739
studies on lipids of after Plasmodium knowlesi infection of. 2972, 2973

**cadamia,** Phytophthora blight of. 1098

**cadamia racemes,** epidemiology of Botrytis blight of. 5093

**cromolecular synthesis,**
in synchronized Tetrahymena, effect of chlorpromazine on. 1560
in synchronized Tetrahymena pyriformis, effect of emetine on. 5487
in Tetrahymena pyriformis leading to cell division. 1379

**cromolecules,** during encystment of Schizopyrenus russelli, changes in the levels of. 189

**cromolecules (exocellular),** environmental factors influencing the synthesis and excretion of. 5941

**crophages,**
in mice inoculated with purified Plasmodium berghei antigen, modifications of the lysosomal enzymes of. 5694
nonspecific resistance induced in by specifically sensitized lymphocytes. 1008
of rat, adherence and phagocytosis of Plasmodium berghei by in vitro. 4862

**crophages (alveolar),** methods of study and role in defence of the respiratory system against infection. 5613

**crophages (mouse peritoneal),**
effects of concanavalin A and pokeweed mitogen in vivo on. 7389
selective effects of thermal injury on. 6102

**crophytes,**
interaction with epiphytic algae and bacteria in littoral of a lake. 111, 652

**dura foot** due to Candida tropicalis. 6256

**Maduromycetoma,**
in an aged mare. 6295
case of caused by Monosporium apiospermium. 2899

**Maduromycosis,**
of the hand due to Phialophora jeanselmei. 6264
occurrence of in Sabah Hospital, Kuwait. 2240

**Magnesium,**
interaction of ions with yeast enolase. 183
kinetic study of the activation of yeast inorganic pyrophosphatase by. 3329
in Neurospora crassa mycelia, level of. 141
spectral studies of the recombination of yeast pyruvate decarboxylase with. 2639

**Magnesium binding** to yeast phenylalanine tRNA. 5956

**Magnesium concentration,** effect of bound peptidyl-tRNA on dissociation into subunits and on phenylalanine polymerization at in Neurospora crassa ribosomes. 2571

**Magnesium ions,**
activating influence of on inorganic pyrophosphatase from bakers' yeast. 4101
excess of, increasing yeast enolase fluorescence produced by substrates and competitive inhibitors in the presence of. 772

**Magnesium requirement,** of the transfer reaction catalyzed by phenylalanyl-tRNA synthetase from baker's yeast, effect of assay conditions on. 5994

**Magnesium sulphate,**
induction of protoplast in Histoplasma capsulatum yeast phase by. 2720
induction of protoplasts of Schizosaccharomyces octosporus by. 305, 3465

**Magnesium uptake,** in fungi, effect of triterpeneglycosides on. 3500

**Magnetic field,** effect of associated with electromagnetic waves on Trypanosoma orchitis in rabbits. 5676

**Magnetic field induced orientation** of photosynthetic systems. 5427

**Magnolia,** new Melampsoridium on. 4027

**Magpie,** Trypanosoma avium from. 52

**Maize,**
control of diseases of. 4608
correlation between initial development and resistance to smut in. 7645
detection of leaf modifications caused by Helminthosporium maydis in. 514
diseases of in Queensland. 2990
effect of $\gamma$-irradiation on storage of. 3835
growing in forest-steppe zone of Krasnoyarsk district, effect of mineral fertilizers on root microflora of. 3814
influence of ferredoxin on activity of ribulosediphosphate and phosphoenolpyruvate carboxylases in. 4238
inoculation of ears of with Fusarium

**Maize, contd.**
    moniliforme. 3039
  leaf shedding stage in incited by Sclerospora sorghi. 5717
  leafspot of incited by Curvularia clavata. 4578
  Phyllosticta maydis as incitant of yellow leaf blight of. 2466
  reappearance of blight in USA in. 1152
  role of cyclic hydroxamic acids in monogenic resistance of to Helminthosporium turcicum. 2368
  toxicity of systemic fungicides against seedborne pathogens of. 2355
**Maize (Latin American),** pathogenicity of Puccinia on germ plasm of. 660
**Maize (stored),** Helminthosporium maydis race T in. 3112
**Maize mutant,** resistance of to Helminthosporium turcicum induced by γ-irradiation. 3782
**Malabsorption** in Plasmodium falciparum malaria. 4483
**Malachite green,** mixture of with formalin for controlling Ichthyophthirius and other protozoan parasites of fish. 5709
**Malaria,**
  among the population of a pile-built lake village of Ganvie. 4415
  asexual and sexual stages of Plasmodium tropiduri in Tropidurus torquatus. 490
  association of hereditary elliptocytosis with. 5037
  in Britain, epidemiology of. 416
  and Burkitt's lymphoma. 7566
  capillary tube agglutination test for. 6803
  causing cortical blindness in Nigeria. 1052
  as a cause of splenomegaly in the Brazilian indian. 992
  caused by Plasmodium ovale in Rhodesia. 458
  cellular transference of immunity in the mouse. 425
  characterization and pathophysiology of serum glycoprotein alterations in. 2932
  chloroquine-resistance in. 3684
  control and treatment of. 7496
  dangers in clinical diagnosis of. 1051
  delagyl treatment of coma in. 1717
  depression of antibody responses to tetanus toxoid in mice infected with. 7514
  development of fluorescent antibodies during. 2930
  diagnosis of. 4413
  diagnosis of by bone marrow aspiration. 6846
  drug potentiation against preerythrocytic stages of Plasmodium falciparum in. 1046
  drug resistance in. 6279
  effect of iron and chloroquine on the erythrocytic forms of Plasmodium berghei causing. 4522
  epidemiology of. 991
  evolution of fluorescent antibodies in monkeys during the course of. 2968
  examination of patients returning from tropical country for. 1050
  experimental infection with in Aotus monkeys. 5699, 5700, 5701
  genetic recombination in parasites of. 405
  in the gibbon. 4524
  glucose-6-phosphate dehydrogenase and. 7500, 7572
  haemoglobin $A_2$ in. 1048
  immunodiagnosis of. 365
  immunofluorescence method suitable for large-scale application of. 4932
  immunofluorescence in the tracking and epidemiology of. 2871
  immunosuppression in children with. 2215
  imported disease important in the USA. 1651
  induced by West African str of Plasmodium ovale, relapse in. 2269
  infection in adult NZB mice and hybrid mice. 2305
  influence on Hb $A_2$ synthesis. 2931
  inhibition of mitochondrial respiration and oxidative phosphorylation by serum from infected animals. 487, 488, 489
  isotopic tracer techniques for studying the dynamics of haemolysis in. 2802
  in Laos. 4487
  liver biopsy and the diagnosis of. 7498
  of man in Papua-New Guinea. 6225
  in mice, activity of dihydroquinone and dihydroquinidine in. 483
  in mice, disturbed immunological responsiveness during. 4431
  in mice, serum protein patterns following primary and challenge infection with. 1084
  nitroblue tetrazolium test in. 366
  outbreak of in Texas. 4486
  pitting function of the spleen in. 7613
  plasma $C_3$ concentrations in nephropathy in. 226
  preparation of multi-species antigen of for use in indirect fluorescent antibody test. 7515
  and its prevention in military campaigns. 2201
  prophylaxis of using sulphones DFD and DS alone and with chloroquine. 2928
  in rats infected with Plasmodium berghei, effect of splenectomy on specific and non-specific immunity during. 6802
  recent trends of the control and treatment of. 5590
  resistance to chloroquine and other anti-malaria drugs in. 2267
  resistant to chloroquine and sulphamethoxine-pyrimethamine. 1715
  role of in aetiology of nephrotic syndrome in Nairobi. 4414
  RNA synthesis in vitro in free parasites of. 4083
  in seamen. 1708

[illegible]

- **Malaria (rodent), contd.**
  - chemotherapy of. 2310
  - criteria for the selection of sulphonamides for the treatment of. 6895
  - observations on the evolution of in the mouse embryo. 2301
  - studies of splenomegaly in. 1045, 7610
  - therapeutic effect of the trypanocidal drugs berenil and pentamidine on. 1087
- **Malaria (simian),**
  - 2200
  - Anopheles elegans as vector of in Ceylon. 2974
  - exoerythrocytic stages of. 3942, 4525
  - in the State of Para, Brazil. 1649
  - transmission of. 2971
  - transmission of in Brazil. 1650
- **Malaria (transfusion-induced),**
  - 2854
  - after open heart surgery. 4488
- **Malaria endemicity** in Togolese population, distribution of haemoglobin and G6PD in relation to. 5591
- **Malaria epidemic.** 6224
- **Malaria eradication,**
  - in 1970. 2203
  - epidemiologic examination of the strategy of. 6222
- **Malaria eradication programme**, in Papua and New Guinea, problems facing. 6784
- **Malaria-infected monkey blood**, centrifugal elutriation for the removal of leukocytes from. 954
- **Malaria outbreak** at Pulau Tekong in Singapore. 2846
- **Malaria parasite,**
  - cytochemical observations on acid hydrolases in blood stages of. 5361
  - development extracellularly and incorporation of labelled precursors. 105
  - fine structure of. 5228
  - among indigenous tribes of Palawan. 6783
  - of the 'Jesu Cristo' lizard in Panama. 4054
  - junctional apparatus in erythrocytes infected with. 2969
  - sulphonamide resistance induced in by milk diet to host animals. 7608
  - of toucans. 2309
  - treated with $^3$H-chloroquine, high-resolution autoradiography of. 5519
- **Malaria parasite (avian)**, changes in the neutral glycosyl ceramides of duck erythrocytes during infection with. 5702
- **Malaria prophylaxis**, attempts at by means of monthly absorption of pyrimethamine-sulphur methoxine. 6845
- **Malaria transmission,**
  - by leukocyte component therapy. 3679
  - relation to quinine as drug adulterant. 3608
- **Malaria tropica**, cerebral complication and fatal termination of. 4968
- **Malaria vector (local)**, anopheline mosquitoes of the Lanao Plateau,Philippines and status of. 1652
- **Malarial activity (anti-)**, of aminoalcohols and 2-p-chlorophenyl-2-4-piperidyl-tetrahydrofuran. 4901
- **Malarial antigens**, comparison of from human and Aotus monkey blood infected with Plasmodium falciparum. 4984
- **Malarial immunofluorescence tests**, use of fibre-optic system in. 2141
- **Malarial nephrotic syndrome (quartan)**, collaborative clinicopathological study in Nigerian children. 5035
- **Malate**, of aerobic yeasts, rhythmic changes of. 867
- **Malate dehydrogenase activity**, in yeasts, effect of carbon source in the medium on. 1591
- **Malate enzyme** in Euglena gracilis, light induced reduction in specific activity of. 7356
- L-**Malate fermentation**, by Schizophyllum commune, effect of thiamine on. 4255
- **Malaya**, Phylloporus and Paxillus in. 1237
- **Malaysia,**
  - case of naturally occurring Plasmodium knowlesi malaria in man in. 3678
  - changing aspects of rubber diseases in. 6927
  - Coccidia of mammals in. 5935
  - Eimeria pachylepyron from the slow loris in. 4516
  - single-dose and short dose regimens of metronidazole in the treatment of amoebiasis in. 5640
- **Malaysia (West)**, Fusarium in paddy soils of. 6384
- **Maldive Islands**, Dictyurus from. 4672
- **Male-inducing substance**, from Volvox aureus, concentration and purification of. 2693
- **Male induction**, in Volvox aureus M5, new system of. 1265
- **Male sterility** in Neurospora crassa, mutations to. 7480
- **Male strain**, of Oedogonium cardiacum, cytological studies in. 1840
- **Maleic acid (N-dimethylamino)**, effect of on Fusarium and Verticillium wilt of tomato. 1138
- **Malic enzymes** in Neurospora crassa, regulation of. 6587
- **Malignancy**, (see also Cancer)
  - in natural and experimental hepatic cysts. 1695
- **Malignancy (progressive)**, Candida serology in. 433
- **Malnutrition**, effects of on growth and mortality of the red rust flour beetle parasitized by Nosema whitei. 3737

**Malnutrition (protein calorie),** in mice infected with Plasmodium berghei yoelii. 7610
**Malo-lactic fermentation**, problems of. 7692
**Maltase,**
  in Saccharomyces carlsbergensis, regulation of synthesis of. 5982
  in Saccharomyces carlsbergensis, regulatory mutants of synthesis of. 6762
  in yeast, genetic control of formation of. 1617
**Maltose,**
  genes for the fermentation of in Saccharomyces carlsbergensis. 4378
  utilization by fruit-rot fungi. 1598
**Maltose genes**, of Saccharomyces, complementation in. 971
**Malvaceae**, identity of Phyllosticta destructiva and similar phoma-like fungi from. 2378
**Mammalian cells**, metabolic DNA in. 5958
**Mammals,**
  biological characters of Leishmania adleri pathogenic for. 5222
  ecological factors relating to enzootic cutaneous leishmaniasis in. 5296
**Mammals (forest),** leishmaniasis in eastern Panama among. 411
**Mammals (Malaysian),** Coccidia of. 5935
**Mammals (small),** in Czechoslovakia, distribution of adiaspiromycosis in. 4400
**Mammals (small alpine),** Grahamella and Sporozoa as blood parasites of. 4058
**Mammals (small wild),** frequency of occurrence of Toxoplasma gondii in. 695
**Mammals (wild),**
  as potential reservoir for Trypanosoma rhodesiense. 1732
  ringworm in. 2843
**Man,**
  immunological methods in diagnosis of protozoan diseases in. 6807
  new food source for. 6346
  transmission of Central American Plasmodium vivax from monkey to. 5704
**Maneb,**
  adaptation of Helminthosporium oryzae to. 3504
  control of Botrytis leaf blight of onion with. 334
  control of corn blight by. 1154
  control of Scleroderris canker with. 6922
  effect of on microflora of potato leaves. 7621
**Manganese,**
  effect of on physiological processes in grape plants infected with phylloxera. 6993
  interaction of ions with yeast enolase. 183
  of laver, relationship between chemical constituents in environmental factors. 791
  requirement of dense cultures of microalgae of. 6168
  role of biological factors in the sedimentation of. 4016
**Manganese dioxide**, microbial reduction of in agricultural soils deficient in assimilable manganese. 2388, 2389
**Manganese-oxidizing fungi**, occurrence, isolation and microscopic investigations of. 4228
**Manganese-poisoning**, and passive resistance of Norway spruce to Fomes annosus. 1762
**Manganous ions**, resistence to in Saccharomyces cerevisiae. 1535
**Manganous salts** of manganese, oxidation of by soil fungi. 6655
**Mango diseases**. 4573
**Mango fruit,**
  in India, Aspergillus rot of. 5795
  infected by Diplodia natalensis, changes in sugars, total nitrogen and amino acids in. 6955
**Mangrove swamp (Hawaiian),** environment and distribution of microfungi in. 6555
**Manipulation (physiological and genetic),** effects of on the anion transport systems of yeast mitochondria. 7482
**Manis crassicaudata**, Toxoplasma gondii isolated from. 4531
**Mannan,**
  of Alternaria, isolation and properties of. 2011
  of baker's yeast cell wall, incorporation of 2-deoxy-D-glucose into. 3363
  biosynthesis in yeast, mannosyldolicholphosphate as intermediate in. 226
  from Saccharomyces cerevisiae, genetic control of production of. 2163
  of yeast, fatal anaphylaxis-like reaction induced by in nonsensitized mice. 3691
  from yeast, reaction of with concanavalin A. 2858
  in yeast cell walls, mercury labelled concanavalin A as marker in electron microscopy localization of. 1455
**Mannan (peptidorhamno),** from Sporothrix schenckii, isolation and purification of. 2016
**Mannan (phospho),**
  from Kloeckera brevis cell wall, subunit structure of. 4162
  of Kloeckera brevis, immunochemistry of. 2015
  from Kloeckera brevis, nature of phosphodiester linkage of. 2014
  in Saccharomyces cerevisiae cell walls, study of phosphate linkages in. 7284
**Mannan (xyloglucurone),** of yellow Rhodotorula. 818
**Mannan insertion** in wall replication in Saccharomyces, use of fluorescein-conjugated concanavalin A to reveal the site of. 7115
**Mannanase**, of Aureobasidium pullulans, studies of. 757
**Mannitol,**
  in Aspergillus clavatus, role of. 3364

**Mannitol, contd.**
  in Chaetomium globosum, metabolism of. 6044
  in Cystoseria stricta, analysis of. 3358
  in Physarum polycephalum, enzyme activity during spherulation induced by. 1391
**D-Mannitol**, of Aspergillus candidus conidia, production of. 872
**L-Mannitol** in parasitic fungi. 6627
**Mannitol biosynthesis** in Sclerotinia sclerotiorum. 2662
**Mannose**, from Phaeocystis poucheti, production of. 3357
**Mannose (guanosine diphosphate)**, in Aspergillus niger, polyprenol phosphate as acceptor of mannose from. 3365
**$\alpha$-Mannosidase**,
  of Aspergillus niger, purification and characterization of. 5346, 5347
  in Dictyostelium discoideum, activity of in axenic culture. 3310
  synthesis of in Dictyostelium discoideum myxamoebae differentiation in axenic culture. 3311
**Mansonones**, relation of to resistance against Dutch elm disease and their accumulation as induced by several agents. 1117
**Manzate 200**, control of corn blight by. 1154
**Manzate D**, in vitro tests with for inhibition of Colletotrichum gloeosporioides. 1550, 2756
**Maple**, development of stromata and the imperfect state of Eutypella parasitica in. 7114
**Mapping (interallelic complementation)**, use of computer in. 2836
**Mapping (transcriptional)**, of rRNA genes of Chlamydomonas reinhardtii chloroplast and nucleus. 3580
**Margarine (Norwegian)**, microbiological quality of. 5788
**Margarine (spoiled)**, isolation and identification of yeasts from. 3108
**Margin**, of Fomitopsis pinicola, cellulolytic activity at. 6597
**Marine diatom**, comparison of laboratory and in situ measurements of urea decomposition by. 5366
**Marine shell-boring green algae**, distribution of. 4719
**Marital partners**, effectiveness and side effects of metronidazole therapy for trichomoniasis in. 2253
**Maritime provinces**, cereal diseases in. 6907
**Marker effect** in the ftr cistron of Coprinus. 7486
**Mass health examination**, review of. 6787
**Mass treatment (periodic)**, with metronidazole, community control of amebic disease by. 7564
**Mastigonemes**, from the Ochromonas flagellum, description of. 51
**Mastigont system**, in Trichomonas muris, fine structure of. 1887
**Mastitis**,
  in cows, caused by Cryptococcus neoformans. 1063
  in cows, prevention of. 7583
**Mastitis (mycotic)**,
  in cows. 4495
  prevalence of among animals in Hariana. 6293
**Mastomys natalensis**,
  Eimeria from. 2294
  experimental infections of with Trypanosoma. 2286
**Mat production**, influence of herbicides on in oak wilt trees. 6904
**Mating**,
  in Coprinus lagopus common A diploid str. 393
  in Entamoeba histolytica. 404
  in Hansenula holstii. 622
  in Saccharomyces cerevisiae. 5247
  in Schizophyllum, genetic control of recombination affecting. 398
  of Tetrahymena pyriformis syngen 1, kinetic studies on. 5261
**Mating (rare)**, of Saccharomyces cerevisiae heterozygous for mating type, genetic mechanisms of. 4949
**Mating (selective)**, in Tetrahymena during genomic exclusion. 407
**Mating type**,
  of Helminthosporium maydis isolates, association with virulence. 2365
  of Microsporum gypseum, determination of in clinical isolates. 1246
**Mating type expression** in Paramecium multimicronucleatum, control of. 3989
**Mating-type substances**, and sexual agglutination in isogamous dioecious chlamydomonads. 6644
**Maturity** in lakes, evaluation of certain indices of. 7171
**Maya Codices**, mushroom symbolism in. 7722
**Meadow (dry)**, in Leningrad, decomposition of vegetative mass in. 7017, 7018
**Meadow (natural)**, comparison of activity of certain pathogens of the cockchafer in plots of. 7606
**Mealworm (lesser)**, bacteria and fungi from collected from poultry brooder houses. 6286
**Measurement**, of Oscillatoriaceae. 556
**Meat (heat- and cold-treated)**, experiments on survival of Candida albicans on. 1179
**Meat inspection**, importance of parasitic infections in Hungary in relation to. 7710
**Mecklenburg coast**, contribution to the knowledge of the algal flora of. 1309
**Media**,
  for Aspergillus oryzae, minimum number of proteases occurring in. 1411

**Media, contd.**
  capacity of growing algal cells to affect the pH and buffering properties of. 4317
  changes in Entamoeba histolytica trophozoites brought about by alterations in. 3476
  comparison of cassava, yam and potato dextrose agar for fungal growth. 349
  for counting osmophile fungi in feed stuffs. 3543
  effects of on aminopeptic behaviour of fungi. 4123
  effect on chemical composition of cell walls of Rhodotorula. 212
  effect on Colpoda maupasii of alteration of. 191
  effect of composition of on utilization of allyl alcohol by Trichoderma viride. 4365
  effect on the morphometrics of Aphelenchus avenae. 1832
  effect of physical factors and composition of on production of H and M antigens by Histoplasma capsulatum. 4424
  for the growth of Aphanomyces euteiches and other Oomycetes. 2110
  for growth of Chlorella pyrenoidosa, comparison of. 346
  influence of on spore swelling of Aspergillus niger and Trichoderma viride. 7372
  without organic nutrients, growth of moulds on. 2791
  stabilizing effect on the 2,6-dichlorophenol indophenol-Hill activity of membrane fragments from Anabaena. 2108
  structure and composition of Oocystis polymorpha cell walls isolated from. 7051
**Media (agar),** automated device for preparation of. 4925
**Media (artificial),** cytology of Puccinia graminis tritici on. 6460
**Media (carbohydrate-free),** for Crithidia. 2131
**Media (chemically defined),**
  effect of adrenergic reactive drugs on Tetrahymena pyriformis in. 5520
  high aflatoxin production on. 840
**Media (containing eosine and methylene blue),** asporogenous yeast mutants susceptible to staining on. 980
**Media (continuous flow),** improved apparatus for the maintenance of Schistosoma mansoni and Plasmodium knowlesi in. 4931
**Media (copper containing nutrient broth),** staining yeast cells for electron microscopy by growth in. 4331
**Media (dermatophyte test).** 7447
**Media (different),** characterization of DNA from Dictyostelium discoideum after growth in. 6566
**Media (different nutrient synthetic),** for cultivating Botrytis cinerea and Monilia, study of. 6749
**Media (different nutrition),** comparison of in the culture of yeasts. 3547
**Media (enriched seawater),** for growth of Fucus. 347
**Media (glucose),** Saccharomyces carlsbergensis mitochondria grown in. 279
**Media (growth),** optimization of the composition and concentration of components of for biosynthesis of proteinase by Aspergillus terricola. 6670
**Media (hydrocarbon containing),** effect of organic acids on growth of Candida in. 887
**Media (hypertonic),** diagnosis of cryptococcal uveitis with. 440
**Media (improved liquid),** cultivation and morphogenesis of Trypanosoma cruzi in. 2135
**Media (inorganic),** growth of fungi on. 2148
**Media (lactalbumin-yeast),** increase in growth of permanent tissue culture cell line cultivated in by addition of extra nutrients. 3550
**Media (liquid),**
  dedikaryotization of Psilocybe caerulescens mycelia in. 3166
  flotation of excised root and fungal cultures on. 6727
  for large scale production of Hirsutella thompsonii in submerged culture. 7450
  microcalorimetric investigations of yeast growth in. 2777
**Media (lysine enriched synthetic),** for the growth of Blastocladiella emersonii. 1566
**Media (mammalian cell culture),** in vitro growth of Trypanosoma lewisi in. 4928
**Media (mounting),** for diatoms. 4313
**Media (new),** growth characteristics of Entamoeba histolytica in monoxenic association in. 1581
**Media (non-living),** morphology and infectivity of Leishmania donovani cultivated in at elevated temperatures. 2132
**Media (nutrient),** reutilisation of for the cultivation of Platymonas viridis. 2768
**Media (paraffin containing),** localization of hydrocarbons in Candida guilliermondii grown in. 4216
**Media (pectin-containing),** conditions for the precipitation of pectolytic enzymes by tannin and gelatin in the deep culturing of Sclerotinia sclerotiorum on. 5339
**Media (selective),**
  for estimation of yeasts. 663
  for the isolation of wood-rotting basidiomycetes. 2117
**Media (semi-synthetic),**
  biological and morphological variability of Plasmopara helianthi in. 4677
  effect of temperature on growth of Trypanosoma in. 2818

- **Media (simple synthetic),** for growth of Tieghmella hyalospora and transformation of cortexolone acetate. 3534
- **Media (solid),**
  - analysis of fungal degradation of lignosulphonates in. 4213
  - growth of fungal colonies on. 77
- **Media (sporulation),** evaluation of for yeasts from pathological material. 4327
- **Media (synthetic),**
  - effect of controlled atmosphere on growth of mould on. 1192
  - growth of Gonium multicoccum in. 7460
- **Media (various nutrient),** respiratory activities of Chlorella ellipsoidea in. 5521
- **Media with oil fuel,** effect of compounds containing amino group on microbial growth in. 3472
- **Medicago sativa,**
  - mechanism of vascular wilting in induced by Verticillium albo-atrum. 3065
  - selection for resistance to anthracnose in. 3777
- **Medicaments (external),** bacterial contamination of. 5163
- **Mediterranean,** distribution of leishmaniasis in. 1644
- **Mediterranean (central),** stratigraphy of sediments from based on benthonic foraminifera. 7194
- **Mediterranean (western),**
  - analytical structural and experimental bionomic research on the benthic sciaphilic populations of. 1306
  - measurements of microbial activity and organic material in. 6526
  - small scale distribution of phytoplankton at the end of July in. 1942
- **Mediterranean ecosystems,** biological activity in the soils of. 3819
- **Mediterranean populations (Eastern),** biological relations of with Egyptian populations during predynastic and dynastic times. 6782, 7197
- **Medium flow rate,** effect of on the density, productivity of specific growth rate of Paramecium caudatum cultures. 5486
- **Megacolon,** physiopathology of in Chagas' disease. 453
- **Megaloschizonts,** elongate and round gametocytes of Leucocytozoon simondi in ducks inoculated with. 1895
- **Megoura viciae,** experimental infection of with Entomophthora. 3689
- **Mehler reaction,** in blue-green algae and Chlamydomonas reinhardi. 294
- **Meiosis,**
  - of Alaria from North America. 3134
  - in Boletus rubinellus, centrosomes and microtubules during. 973
  - in the grasshopper and some ciliates, effect of the seeds of Abrus precatorius on. 7392
  - in Lophodermium pinastri. 2492
  - in Podospora anserina, mutations affecting. 6195
  - products of from natural infections of Ustilago maydis. 1124
  - in Saccharomyces, genetic control of recombination in. 3486
  - in Saccharomyces cerevisiae. 87
- **Meiosis (postcleavage),** in Physarum flavicomum, supportive evidence for. 1912, 2484
- **Meiotic controls (pre),** of recombination frequencies in Neurospora crassa, details and effects of. 2830
- **Meiotic events (post),** in Homobasidiomycetidae. 5250
- **Meiotic recombination,** in Ascobolus, evidence for involvement of only one member of a tetrad. 2825
- **Meiotic reversion frequency (high),** genetic determination of in isoleucine-valine 1 homoallelic crosses in Neurospora. 6188
- **Meiotic spindle plaque** in Saccharomyces cerevisiae. 6725
- **Melatonin,** inhibition of microtubule-based oral morphogenesis in Stentor coeruleus. 4270
- Mel B, therapeutic activity of equine infection with Trypanosoma evansi. 3712
- **Melinacidins II, III and IV,** produced by Acrostalagmus cinnabarinus var melinacidinus. 7305
- **Mellein production** by Aspergillus ochraceus. 6636
- **Meloidogyne arenaria,** effects of and curing time on infection of peanut pods by Aspergillus flavus. 1129
- **Melolontha melolontha,** comparison of activity of certain pathogens of in plots of natural meadowland. 7606
- **Melolontha melolontha larvae,** modification of the development of Beauveria tenella mycosis in. 3696
- **Melon,**
  - correlation between virulence of Colletotrichum lagenarium and its ability to degrade polyglucosides in the cell walls of. 5100
  - infected with Colletotrichum lagenarium, kinetic study of polysaccharide changes in the cell walls of hypocotyls of. 3776
- **Membrane,**
  - of Glaucocystis nostochinearum, structure of. 3854
  - of Peridinium trochoideum thecal plates, fine structure of. 3876
  - of Tetrahymena, ergosterol replacement of tetrahymanol in. 245
- **Membrane (biological),** dynamics of organization of. 5805
- **Membrane (cell),** role of in the regulation of the biosynthesis of α-amylase in

**embrane (cell), contd.**
  Aspergillus oryzae. 6005

**embrane (chloroplast),**
  biogenesis of. 3201, 3344, 4834, 5426
  of Chlamydomonas, structural differentiation of stacked and unstacked. 7

**embrane (cyto),** of Tetrahymena pyriformis, differentiation of. 1260

**embrane (cytoplasmic endo-),** continuity with other mitochondrial membranes in fungi. 1251

**embrane (endo-),** of Pythium hyphae, continuity between components in. 1216

**embrane (excitable),** genetic modification of electric properties in. 5586

**embrane (microsomal),** of Acanthamoeba castellanii, enzymatic properties of. 783

**embrane (mitochondrial),**
  of Neurospora crassa, separation of. 4326
  of respiring and respiration-deficient yeasts, translocation of protons and potassium across. 2047
  structural study by freeze-etch and freeze-fracture techniques. 19

**embrane (model and biological),** effect of antamanide and perhydroantamanide on permeability of. 4179

**embrane (nuclear),** of Neurospora crassa, electron microscopy of during somatic nuclear separation. 4703

**embrane (plasma),**
  of Acanthamoeba castellanii,composition of. 808
  of Acanthamoeba palestinensis, regularly arranged particles on the inner Lamella of. 2473
  of amoebae, study of with ruthenium red and violet. 3181
  of Micrasterias denticulata, fine structure of. 3866

**embrane (plasma and phagosome),** of Acanthamoeba castellanii. 3291

**embrane (protein),** in Microcystis aeruginosa, kinetics of the formation of. 6427

**embrane (protoplastic and mitochondrial),** of Saccharomyces cerevisiae, influence of carcinogenic carbides on the lipid structure of. 4291

**embrane (yeast),** localization of freeze-fracture planes of. 5542

**embrane activity** in freshwater amebae. 7724

**embrane filters,** retention of dissolved compounds by as error in the $^{14}C$ method of primary production measurement. 4905

**embrane isolation (cell),** axenic mass cultivation of Entamoeba invadens and. 4347

**embrane permeability,** of pea seed stored, changes in resulting from infection by Aspergillus ruber and aging. 7015

**Membrane permeability (cell),** changes in in sunflower hypocotyls infected with Sclerotinia sclerotiorum. 4549

**Membrane potential,**
  of Acetabularia, action of sinusoidally modulated light on. 1504
  and impedance of developing fucoid eggs. 5871

**Membrane potential change** of Opalina, effect of external cations on. 7380

**Membrane potential/resistance,** of Nitella flexilis, effect of low energy X-rays on. 6118

**Membrane production (extracellular),** in Labyrinthula, role of bothrosome in. 6497

**Membrane properties** of saturated fatty acid mutants of yeast revealed by spin lables. 2833

**Membrane stability (thermal),** and nature of fatty acids in yeast cells. 3372

**Membrane studies,** Tetrahymena pyriformis as model system for. 7300

**Membrane systems,** of Tetrahymena pyriformis, lipid composition and biochemical properties of. 2676

**Membrane transport** in Euglena, effect of cycloheximide on. 2093

**Membrane turnover** in Hyalodiscus simplex, quantitative studies on. 3853

**Membrane-microtubule-microfilament,** relationships between in the ciliate pellicle. 1259

**Membraneous systems** in the cortex of Paramecium caudatum, fine structure of. 1906

**Memory traces,** in Spirostomum ambiguum, role of RNA in formation of. 1375

**Menai Strait,** seasonal variation of dissolved organic carbon in the inshore waters of in relation to primary production. 4357

**Mendelian linkage groups,** in Chlamydomonas reinhardtii, location of. 1602

**Meningitis (Candida),** experimental study of. 6862

**Meningitis (chronic coccidioidal).** 1044

**Meningitis (Cryptococcal),**
  as complication of systemic lupus erythematosus treated with systemic corticosteroids. 2892
  case of treated brainsurgically. 7547

**Meningitis (neonatal),** observations and review. 7530

**Meningitis (purulent),** mycotic aneurysms following, case report. 2247

**Meningococcal meningitis,** work of the World Health Organisation in. 2848

**Meningoencephalitis** caused by Cryptococcus neoformans. 4995

**Meningoencephalitis (experimental Naegleria),** in mice. 2290

**Meningoencephalitis (leishmaniasis),** experimental model of. 1069

**Meningoencephalitis (primary amoebic),** 4475, 7006, 7565

**Meningoencephalitis (primary amoebic), contd.**
  in Antwerp, three cases of. 1043, 1709
  caused by Naegleria. 680
**Mental retardation**, caused by toxoplasmosis. 460
**Mepacrine**, in vitro effect of against pathogenic and non-pathogenic free-living amoebae and on anaerobic amoebae. 7421
**Mercapto group**, of yeast pyruvate decarboxylase, number and reactivity of. 5358
**Mercaptoethanol**, action of on cell division in Tetrahymena. 4880
**Mercuric chloride**, tissue culture bioassay method for water pollution with special reference to. 6159
**Mercury**,
  control of seedborne safflower rust with seed protectants without. 3022
  in marine organisms of the Tay region. 7022
  tolerance of in Pyrenophora avenae in Norway. 1146
  toxicity of to phytoplankton. 4882
**Mercury (organic)**,
  epiflora of oat seed treated with. 4033
  mechanisms for synthesis of in fish. 4289
  treatment of sugar-beet seed with. 3755
**Mercury compounds**, use of for seed treatments. 3071
**Mercury inhibition** of lipid biosynthesis in freshwater algae. 3437
**Meriones erythrourus**, endogenous stages of life cycle of Eimeria schamchorica of. 3232
**Meristems**, in Ascophyllum nodosum. 3956
**Meromyosin (heavy)**, identification of plasma-filaments in Physarum polycephalum by in situ binding of. 2449
**Merozoite**,
  of Babesia ovis, structure of in the salivary glands of female ticks. 3721
  of Eimeria falciformis, fine-structure of. 6476
  of Eimeria stiedae, fine structure of. 5857
  of Haemoproteus columbae, fine structure of. 1929
**Mertect**, control of black rot of sweet potatoes with in dips at various temperatures. 1104
**Mesocolon (transverse)**, actinomycosis of. 1028
**Mesopsammon** of the eastern shore of the middle Caspian Sea, ciliata of. 5300
**Mesorbal**, treatment of trypanosomiasis with. 2910
**Mesosomes** in blue-green algae. 5811
**Mesotrophy**, relation to taxonomy of Chlorella. 564
**Metabolic activity**, correlation of alterations in with alkaloid production by submerged Claviceps. 1495
**Metabolic inhibitors**,
  effect of on the assimilation of phosphate by Trypanosoma cruzi. 2736
  effect on sclerotium formation in Sclerotium. 1285
  in Rhodotorula gracilis, transport of monosaccharides in the presence of. 1462
**Metabolic parameters** of transport in Nitella clavata. 2561
**Metabolic rhythms**, of aerobic yeasts. 867
**Metabolism**, inhibition by 2-deoxy-D-glucose of synthesis of glycoprotein enzymes by protoplast of Saccharomyces to. 7234
**Metabolism (aerobic and anaerobic)**, in Entamoeba histolytica. 2055
**Metabolism (amino acid)**, in Dictyostelium discoideum, tyrosine transaminase in. 156
**Metabolism (endogenous)**, of Saccharomyces cerevisiae. 2563
**Metabolite (unusual)**, from Irpex pachyodon. 3418
**Metabolites (fungal)**, effect on colonisation of fungi on nutrient agar from soil inocula. 2685
**Metabolites (new)**, from Phyllosticta. 3430
**Metabolites (volatile fungal)**, biological activity of. 1357
**Metadinitrobenzene**, control of seed-borne fungi of stored groundnut with. 4645
**Metal elements**, methods for quantitative determination of in microalgae. 7427
**Metal ions (alkali)**, complex formation of the cyclic depsipeptides and peptides. 250
**Metals (heavy)**, stimulation of mycelial growth of Endothia parasitica by. 1513
**Metaphase (mitotic)**, observations of in Schizosaccharomyces pombe. 1621
**Metaphase (pre)**, of Paracineta limbata and Ichthyophtirius multifiliis, electron microscope observations on. 3233
**Metapolophium dirhodum**, Entomophthora infection of. 2275
**Metepa (tris-(1-(2-methiol)aziridinil)-phosphoric oxide)**, individual sterilization of Rhodnuis prolixus by and its action on Trypanosoma cruzi. 7593
**Methanol**,
  assimilation of by Candida boidinii. 5563
  growth of yeast on as sole carbon substrate. 3575
**Methanol (5,7-Dichloro-2,3-dihydro-1H-cyclopenta b quinoline-9-α-di-n-butylaminomethyl)**, antimalarial action of. 3516
**Methionine**,
  in the biosynthesis of threonine in Crithidia fasciculata. 4145
  characteristics of protection of sai-1 mutation in Saccharomyces cerevisiae by. 6202
  comparison of surface structures of cholineless Torulopsis pintolopesii grown on defined media with. 4859
  metabolism by Ochromonas danica. 342
  metabolism by Prymnesium parvum. 217
  new analogues of aspergillic acid derived from. 5439
  prevention of inhibition of growth by methionine

**Methionine, contd.**
    sulphoximine by. 5459
  relation to effect of leucine on $H_2S$ production by yeast. 868
**DL-Methionine**, improvement of protein value of yeast grown on petroleum hydrocarbon by supplementation with. 2151
**L-Methionine,**
  in the culture of Leishmania tarentolae. 1600
  effect on sclerotium formation in Sclerotium. 1285
**Methionine (S-adenosyl-L)**, from bakers' yeast, mechanism of synthesis of. 4136
**L-Methionine (excess)**, response of the intracellular ATP pool of Saccharomyces cerevisiae to growth inhibition induced by. 7368
**Methionine-requiring Paracoccidioides brasiliensis**, nutritional studies on. 5566
**Methionine specific tRNA** from brewer's yeast and haploid yeast. 1365
**Methionine synthesis**, by Coprinus lagopus, role for folic acid conjugase in the regulation of. 1984
**Methionine transport**, in Tetrahymena pyriformis, characteristics of a concentrating, inducible transport system of. 5383
**Methodological principles**, for the study of algal populations in vitro. 926
**Methotrexate**, in the treatment of skin diseases. 1697
5- and 8-**Methoxypsoralen**, from celery infected with Sclerotinia sclerotiorum, isolation and identification of. 5727
**Methyl benzoate**, production of by Phellinus. 5438
**Methyl bromide**, fumigation by to control spread of mushroom virus disease. 1156
**Methyl bromide + chloropicrin**, control of Fusarium wilt of petunia with. 513
**Methyl-1-(butylcarbamoyl)-2-benzimidazole carbamic acid**, toxicity of on fungi. 6135
**14A-Methyl-5a-ergost-8-en-3β-ol and 14a-methyl--5a-ergosta-8,24(28)-dien-3β-ol**, from Chlorella emersonii after triparanol-treatment. 821
**6-Methyl-2,3-quinoxalinedithiol cyclic S,S-dithiocarbonate**, performance of against wheat powdery mildew in the field. 6906
**Methyl ferulate**, from wheat stem rust uredospores, identification of. 870
**0-Methyl group**, unusual tocopherol isomer with from Euglena gracilis. 6649
**Methyl 4-hydroxy-3-methoxycinnate**, from wheat stem rust uredospores, identification of. 870
**2-Methyl-1, 4-naphthoquinone**, reaction of, with yeast alcohol dehydrogenase. 170
**N-Methyl-N-nitroso-p-toluenesulfonamide**, a Euglena mutant resistant to. 316
**N-Methyl-N-nitrosoguanidine**, production of mutants of Botrytis allii with. 1542
N-**Methyl phenazonium methosulphate**, lack of effect of on far-red induced glucose uptake in Chlorella. 3441
2-**Methyl-8-quinolinols (5,7-substituted)**, antifungal activity of. 6133
**Methyl salicylate**, production of by Phellinus. 5438
**Methyl substituent**, influence on the oxygenation of cyclic compounds with Sporotrichum sulfurescens. 876
**Methyl trisporate B and C**, of Mucorales, synthesis of. 856
**Methyl viologen**, catalysis of Mehler reaction in blue-green algae and Chlamydomonas reinhardi. 294
**Methylamine treated cottonseed meal**, chemical and biological properties of. 2678
6-**Methylaminopurine content** in DNA of zygomycetes. 6568
**Methylases (tRNA)**, of Neurospora crassa germination, transfer of. 81
**Methylation,**
  of pentachlorophenol by Trichoderma virgatum. 5448
  of yeast phenylalanine and Escherichia coli tRNA, inhibition and activation of. 7213
2'-0-**Methylation**, nucleotide sequence in 14 dinucleotides modified by. 5313
**Methylbromide**, fumigation of Phytophthora in sandy soil by. 3084
α-**Methyldethiobiotin**/α-**Methylbiotin**, new antimetabolites of biotin. 4249
α-**Methylglucoside**, genes for the fermentation of in Saccharomyces carlsbergensis. 4378
**Methylene blue,**
  medium containing, asporogenous yeast mutants susceptible to staining on. 980
  mutants of Candida guilliermondii susceptible to staining on medium containing. 2181
**Methylheptadecanes**, biosynthesis of in Anabaena variabilis. 6073
3-0-**Methylmannose**, from Coccidioides immitis, characterization of. 813
3-**Methylorsellinic acid**, isolation of from Aspergillus terreus. 5440
**Methylpartricin,**
  clinical and therapeutic properties of in the treatment of vaginal moniliasis and trichomoniasis. 7529
  in vitro activity of. 4296
6-**Methylsalicylic acid,**
  conversion of into patulin by Penicillium urticae. 4188
  synthesis of in Penicillium patulum. 6608
**Metobromuron**, effect on growth and sclerotia production of Sclerotium rolfsii. 915
**Metronidazole,**
  chemoprophylaxis of amebiasis with. 2913
  clinical evaluation of against Trichomoniasis vaginalis. 1703

**Metronidazole, contd.**
- community control of amebic disease by periodic mass treatment with. 7564
- comparison of with nitrimidazine in treatment of trichomonal vaginitis. 5025
- effect on Entamoeba histolytica trophozoites. 3510
- effect on Entamoeba histolytica in vitro. 3511
- effectiveness and side effects of treatment by in trichomoniasis in marital partners. 2253
- evaluation of in invasive amebiasis. 2257
- in giardiasis. 2250
- induction of resistance in vivo to in recently-isolated Trichomonas vaginalis. 5670
- in vitro activity on isolated strs of Entamoeba histolytica. 343
- in vitro effect of against pathogenic and non-pathogenic free-living amoebae and on anaerobic amoebae. 7421
- a low dosage medication with in amoebiasis. 3663
- and protozoal infections. 1035
- in simplified dosage in Trichomonas infestation. 7560
- single-dose and short dose regimens of in the treatment of amoebiasis in Malaysia. 5640
- treatment of acute amebic liver abscess with. 2924
- treatment of amebiasis with. 1713, 2911
- treatment of trichomonal vaginitis with single oral dose of. 5024
- treatment of trichomoniasis in the female with. 452
- Trichomonas vaginalis resistant to. 1036
- trichomoniasis treated with one dose of. 2908
- use of in the treatment of non dysenteric intestinal amoebiasis. 6837

**Mevalonate,**
- in Fusarium cubense, as a precursor of cis- and trans-5-hydroxy-3-methyl-2-pentenoic acids. 211
- in Phytophthora cactorum, dolichols, ubiquinones, geranylgeraniol and farnesol as the major metabolites of. 6051

**Mevalonic acid** in Blakeslea trispora, biosynthesis of. 4206

**Mexican basin**, microflora of the coniferous forest of. 6387

**Mexican fungi**, action of psilocybin from on the building of spiders' web. 2027

**Mexican green algae**, cakes from. 1809

**Mexico,**
- Cyathus pictus from. 1234
- frequency of acute amoebic rectocolitis in several dependencies of. 3606
- frequency of amoebic liver abscess in hospitals of. 3604
- frequency of amoebic liver abscess among private patients in. 3605
- fungal parasites of Graminae in. 3039
- Parmelia permaculata from. 49
- potatoes resistant to blight in. 495
- rust fungi on Compositae in. 7638
- triticale research in in relation to new food source for man. 6346

**Mexico (Gulf of),**
- Caulerpa ollivieri from. 2520
- coccolithophorids of. 2515
- relationships of chlorophyli maxima to density structure of. 5275

**Mexico (northern Gulf of)**, suspended matter in surface waters of. 6563

**Mexico City**, frequency of amoebic rectocolitis in private patients in. 3607

**Michener (Josephine)**, unpublished observations on the thecate stage of Pyrocystis by. 5868

**Miconazole**, treatment of vaginal Candidosis with. 2886

**Microbiological method**, report on. 4921

**Microbodies,**
- in Chlorella, presence of. 1837
- of Euglena gracilis, environmental factors controlling enzymatic activity in. 5964
- in Polytomella caeca and Chlorogonium elongatum. 8
- of yeast and other fungi. 1250

**Microciona prolifera,**
- ingestion and digestion of yeast-like fungi by. 1180
- microbial flora of. 4037

**Microcosms (lake water)**, eutrophication of. 2417

**Microdeutopus anomalus**, Paramacrinella microdeutopi as trichomycete parasite of. 1722

**Microelectrode (intracellular Ag-AgCl)**, measurement of effects of external cations o chloride activity in Nitella cytoplasm by. 2713

**Microlayer method (simple)**, for small samples. 6715

**Microscope (inverted)**, modified sedimentation system for counting algae with. 7436

**Microscopy**, simple method for preparation of fungi for. 5544

**Microscopy (direct)**, of clamp connection formation in Schizophyllum commune growin hyphae. 1282

**Microscopy (electron),**
- of the adoral zone of Entodinium caudatum membranelles. 67
- of antigens preparations of Plasmodium. 4987
- of autoinfection in neogregarines. 5858
- of Aspergillus cleistothecial spp. 38
- of avian trypanosome division. 52
- of Bdellovibrio chlorellavorus parasitism on Chlorella vulgaris. 4658
- of bipolar bodies in Crithidia oncopelti. 1884
- of Botrydium granulatum vegetative plant. 2

**Microscopy (electron), contd.**
  of cell walls of Candida guilliermondii strs. 1241
  of isolated Chlamydomonas cell walls. 6
  of Chlamydomonas reinhardtii, three-dimensional study by. 3128
  of Dermatocarpon hepaticum. 2471
  of the developmental stages of Eimeria maxima. 5898
  of Didinium nasutum during excystment. 5260
  disclosure of new type of organelle in Tintinnide ciliates. 3194
  of dividing cells of Physarum polycephalum. 4701
  of Eimeria tenella grown in the liver of the chick embryo. 5226
  of Entamoeba coli trophozoites from in vitro cultures. 7087
  of experimental Naegleria meningoencephalitis in mice. 2290
  of flagellate nanoplankton from the coast of Norway, identification by means of. 4674
  of Foraminifera. 3926
  of free and lichenized Nostoc, cytochemical detection of reserve polyglucosides in. 5384
  freeze-etching of microorganisms for. 3535
  of the intracellular form of Schizotrypanum cruzi infection in mice. 5672
  of isolated mitochondria of Tetrahymena pyriformis. 1258
  mercury labelled concanavalin A as marker in localization of mannan in yeast cells. 1455
  of Microcystic aeruginosa central zone. 1
  of microgamete development in Toxoplasma gondii. 2508
  of microgametogenesis in coccidia and related groups. 3231
  of Monocercomonas. 5852
  of morphological changes in axenically grown trophozoite of Entamoeba histolytica under the effect of antiamaebic drugs. 3510
  of myosin from Physarum polycephalum. 4675
  of nuclear event during binary fission in Paramecium multimicronucleatum. 3988
  of nuclear membranes during somatic nuclear separation in Neurospora crassa. 4703
  of oocyst shell formation in Eimeria necatrix. 2507
  of orchid-mycorrhiza. 43
  of Paracineta limbata and Ichthyothtirius multifiliis pre-metaphase stages. 3233
  of Saccharomycodes bud development. 628
  of Saccharomyces cerevisiae cells infected with double stranded RNA viruses from Aspergillus niger and Penicillium stoloniferum. 3796
  of sporogenesis in Aggregata eberthi. 1928
  staining yeast cells for by growth in copper-containing nutrient broth. 4331
  Strigomonas oncopelti, use of ferritin-labelled immune sera for. 5854
  study of the association between chroococcale and a sponge. 3994
  study of cell morphology of blue-green algae isolated from Cycas revoluta by. 7347
  study of phagocytosis of Crithidia by Entamoeba histolytica by. 7474
  study of the schizogony of the small schizonts of Eimeria stiedae by. 7131
  of Stylonychia mytilus macronuclear and micronuclear DNA. 1376
  technique of Chlorella and Scenedesmus preparations for. 927
  of teliospores of Melanopsichium eleusinis. 3161
  tumours in Porphyra preserved by. 6682
**Microscopy (electron, freeze-etch),** of Chlamydomonas chloroplast membranes. 7
**Microscopy (electron, scanning),**
  of ciliate surface patterns and organelles. 64
  of Strobilomycetaceae basidiospores. 27
**Microscopy (fluorescent),** sliding-chamber phytoplankton settling technique for making permanent quantitative slides with application in. 6713
**Microscopy (fluorescent and electron),** study of wheat roots infected with Ophiobolus graminis by. 1759
**Microscopy (freeze-etching electron),** of the pansporoblast of Thelohania bracteata. 1899
**Microscopy (immuno-electron),** with 3-carboxy-4-ferrocenyl phenyl isothio-cyanate-labelled antibodies of Toxoplasma gondii. 1584
**Microscopy (interference),** of onion epidermal nuclei response to fungal pathogens. 2350
**Microscopy (light),**
  of avian trypanosome division. 52
  of Botrydium granulatum vegetative plant. 2
  of Chrysochromulina acantha sp.n. 1203
  of Histomonas meleagridis. 1925
  of regeneration of Histoplasma capsulatum protoplasts. 7123
  study of blue-green algae isolated from Cycas revoluta by. 7346
**Microscopy (light and electron),**
  of the autonomic nervous system in experimental and human American trypanosomiasis. 2255
  of Coprinus radiatus meiotic basidia. 2497
  encystment of freshwater dinoflagellate studies by. 3955
  of endotrophic mycorrhiza of orchids. 6385
  of fertilization and sporogenesis in Coelotropha durchoni. 638
  of mitosis in Schizosaccharomyces pombe. 630
  of mycosis fungoides and Sezary's syndrome before and after treatment. 2243
  of the peristome and related structures of Entodinium caudatum. 66

- **Microscopy (light and electron), contd.**
  - of rhizoid development in Polysiphonia lanosa. 4699
- **Microscopy (light, phase contrast and electron),** of Cryptococcus neoformans in human cryptococcosis. 1243
- **Microscopy (light and scanning electron),** of endolithic desert algal habitat. 3798
- **Microscopy (light, transmission and scanning electron),** study of Gomphonema parvulum by. 7042
- **Microscopy (phase contrast and interference),** of Schizosaccharomyces pombe. 1621
- **Microscopy (scanning),** of Sporotrichum schenckii morphology, studies by. 2789
- **Microscopy (scanning electron),**
  - of dermatophytes of veterinary importance. 4685
  - detailed observations on some Orbulina tests from northern Italy Neogene by. 1256
  - detection of maize leaf modifications caused by Helminthosporium maydis with. 514
  - of the excystment process of Acanthamoeba castellanii. 7130
  - of microorganisms. 4926
  - of nematode-trapping organs in Arthrobotrys oligospora. 4681
  - of poultry coccidia after in vitro excystation and penetration of cultured cells. 604
  - relevance of to the morphology of yeast spores. 1859
  - of rust spores. 585
  - of spores of Gasteromycetes. 1870
  - study of the spores of rust fungi on Pinus pinaster by. 7637
  - of the surfaces of Anobiid eggs and studies on the localization of endosymbiotic fungi. 3282
  - surface structure of germinating Uromyces dianthi urediospores as observed by. 3222
  - of thecae of Ornithocercus. 2438
  - of Trichoderma colonies. 594
- **Microscopy (scanning electron and phase constrast),** germination and outgrowth of single spores of Saccharomyces cerevisiae viewed by. 3968
- **Microscopy (sub),** cytology of fungal cells studied by. 7080
- **Microscopy (thin section electron),** of Actinomycin D treated Tetrahymena cells and amphibian oocytes. 4353
- **Microscopy (transmission and scanning electron),** on Hemileia vastatrix-Verticillium hemileiae association. 1235
- **Microscopy (ultra),** of the viral complex of Agaricus bisporus carpophores. 6374
- **Microsomal fraction,** from Tetrahymena pyriformis str ST. 1358
- **Microsomes,** of yeast, interconversion of high- and low-spin states of cytochrome P-450 solubilized from. 7337
- **Microsomes (rat liver),** formation of a factor lethal for Salmonella typhimurium on incubation of aflatoxin B1 with. 1480
- **Microsporidoses** of the hymenopterous parasites of Heliothis. 7615
- **Microtubule arms** and propulsion of food particles inside a large feeding organelle in Phascolodon vorticella. 5863
- **Microtubule model** for ingestion and transport in the Suctorian tentacle. 3576
- **Microtubule proteins,** from Tetrahymena cilia, heterogeneity of. 1447
- **Microtubules,**
  - of Amoebophryidae, intervention in mitosis by. 1883
  - in Chlorella. 563
  - during meiosis in Boletus rubinellus. 973
  - of Nassula, development and deployment of. 1934
  - in Tetrahymena pyriformis, properties of proteins of. 809
  - in Tetrahymena pyriformis, synthesis and assembly of proteins of. 810
  - of Tetrahymena pyriformis, synthesis of proteins of. 637
- **Microtus agrestis,** determination of sensitivity of to development of infection by Toxoplasma gondii. 1089
- **Micrurgical studies,** with large free-living amoebas. 951
- **Migration inhibition,** relation to cellular immunity in vitro. 1656
- **Milcurb,** control of Ophiobolus graminis by. 5501
- **Mildew,**
  - of Cucurbitaceae due to Pseudoperonospora cubensis in France. 7626
  - effect of autumn attack of on growth and development of winter barley. 6330
  - effect of sowing date on resistance of oats to. 501
  - increased incidence after treatment of wheat with herbicides. 1757
  - of oak. 6925
  - ribosome metabolism in barley leaves infected with. 1106
  - in spinach. 2986
  - treatment of seed to reduce infection of. 1116
- **Mildew (downy),**
  - in alfalfa. 7618
  - genes giving resistance to in sunflowers. 1756
  - of hop, effect of Streptomycin on. 2322
  - of lettuce, sources of immunity from races 5 and 6 of fungus causing. 2315
  - in lettuce, studies on method of carry-over of. 1093
  - measurement of systemic infection of crucifers with. 3746
  - nature of lignin from Japanese radish root infected with. 5711
  - occurrence of on lima bean. 5713

**Mildew (downy), contd.**
  resistance to in interspecific vine hybrids. 493
  of soybeans, gene for general resistance to. 4555
  sugar beet attacked by. 3747
**Mildew (phyllody)**, reaction of wild Carthamus to in Israel. 1765
**Mildew (powdery),**
  of barley in leaf culture, cultivation method for. 4915
  changes of leaf pigments in resistant barley infected with. 6332
  control of in greenhouse strawberries with systemic fungicides. 5088
  of cucumber and okra in the Sudan, chemical control of. 6924
  danger of. 5720
  decrease in chloroplast content of barley leaves infected with. 3759
  determination of cytokinins in barley after attack by. 6333
  in Greece. 5196
  infection by in apple cultivars grafted on various clones and seed stocks. 5719
  influence on $^{35}$S and $^{45}$Ca accumulations in apple seedling leaves. 1112
  inheritance of fruit flesh and skin colours in cucumber resistant to. 5087
  inheritance of resistance to in cucumbers. 2994
  occurrence of in roselle mulberry in Egypt. 3760
  physiological specialization of in Hungary. 5718
  of strawberry. 7627
  on tobacco leaves, Lepidocyrtinus eating the colony of. 5287
  of wheat, genes for resistance to in derivatives of Triticum. 5081
  of wheat, performance of fungicides against in the field. 6906
**Mildew fungi**, from Rhineland. 3266
**Mildew resistance (downy),**
  field evaluation of sunflower for. 6900
  as genetic marker for lettuce breeding. 2204
**Mildew resistance (race specific)**, new spring barley with. 4564
**Military campaigns**, malaria and its prevention in. 2201
**Military communities**, epidemiological study of amoeba of the Limax group in. 2199, 4965, 6221
**Military recruits**, dermatophytes in. 4962
**Milk**, aflatoxin formation in. 4828
**Milk (human)**, contamination of by Candida albicans and other yeasts as source of group infections of the newly born. 3829
**Milk (pooled)**, investigation of the occurrence of moulds in. 7708
**Milk diet** given to host animals, sulphonamide resistance induced in malaria parasites by. 7608
**Milk diet (lactose-, galactose- and glucose-free)**, development of. 3825
**Milk whey**, biosynthesis of pectolytic enzymes by Aspergillus awamori and Botrytis cinerea on. 7240
**Milkweed**, ultrastructural study of Phytomonas elmassiani from. 3922
**Mill (laboratory)**, for pulverizing and homogenizing nail specimens as an aid to microscopy and culture confirmation of onychomycosis. 5541
**Millet (pearl)**, effect of fungicides on smut and seed mycoflora of. 4560
**Millet diseases** in Niger. 3766
**Milling (dry)**, of corn attacked by southern leaf blight. 6968
**Mills**, fungi in air within. 657
**Milo**, effect of $\gamma$-irradiation on storage of. 3835
**Milstem**, control of Ophiobolus graminis by. 5501
**Mine**, in Czechoslovakia, the findings of Talaromyces vermiculatus in. 3901
**Mine (phosphate)**, nonpetrified fossil alga from. 650
**Mine drainage (acid)**, distribution of biota in stream polluted by. 4652
**Mineral components** of lake Baikal. 3237
**Mineral nutrition**, influence on oil palm stem rot due to Ganoderma. 1796
**Minerals,**
  absorption of from the nutrient medium by Chlorella cells with respect to age. 4355
  geochemical activity of microorganisms in deposits of. 5775
**Minerals (clay)**, influence on formation of humus material by various soil fungi. 4263
**Mining (vertical)**, distribution of phytoplankton between Corse and Barcelona in relation to. 6533
**Mink**, aflatoxin intoxication in. 5657
**Minnow**, Eimeria ambassi from. 6310
**Minocol**, control of Ophiobolus graminis by. 5501
**Minocycline**, treatment of acute falciparum malaria in Thailand with. 5034
**Miocene**, planktonic foraminifera of. 7195
**Miso and miso-koji** in Japan, test on aflatoxin contamination of. 7694
**Mistletoe (dwarf)**, occurrence and pathogenicity of Nectria fuckeliana on in California. 6335
**Mite,**
  biology of crepuscular bee in relation to. 4633
  influence on bud necrosis of tulips. 6960
**Mite (spider)**, in Israel, Triplosporium floridanum attacking. 7580
**Mite (tetranychid)**, occurrence of Entomophthora on. 2937
**Mitochondria,**
  of algae, bristly cristae in. 1205
  of Candida utilis, factors controlling the

**Mitochondria, contd.**
    occurrence of site 1 phosphorylation in. 7373
  changes in morphology of during the cell cycle of Euglena gracilis. 4698
  of Chlamydonomas reinhardii. 2434
  of chloramphenicol-treated Neurospora crassa, close correlation between antimycin titre and cytochrome $b_T$ content in. 7399
  degradation and restoration of upon deaeration and subsequent aeration of aerobically grown Saccharomyces cerevisiae. 884
  of Euglena gracilis, environmental factors controlling enzymatic activity in. 5964
  of Euglena gracilis, isolation of active polyribosomes from. 6146
  extra chromosomal inheritance in. 4394
  function and development of, relation of cardiolipin content. 235
  inhibition of respiration in by serum from malaria-infected animals. 487, 488, 489
  in Mucor genevensis, development of after anaerobic growth. 2717
  of Neurospora crassa, circular DNA from. 5310
  of Neurospora crassa, detection of circular DNA from. 3295
  of Neurospora crassa, dihydroorotate-quinone reductase of. 730
  of Neurospora crassa, intracellular site of synthesis of ribosomal proteins of. 6617
  of Neurospora crassa, separation of membranes of. 4326
  number of 4S RNA genes on yeast DNA of. 5571
  of Ochromonas danica, effects of chloramphenicol on ultrastructure of. 4881
  outer membranes of, continuity with cytoplasmic endomembranes of fungi. 1251
  of ox-neck muscle, fuscin as inhibitor of respiration and oxidative phosphorylation in. 6066
  production of mitochondrial peptide-chain elongation factors in yeast deficient in DNA in. 2573
  from Saccharomyces carlsbergensis in normal glucose medium, properties of. 279
  from Saccharomyces cerevisiae, characterization of insoluble protein fractions of. 3351
  of Saccharomyces cerevisiae, degradation of during deaeration of cells grown aerobically. 2724
  from Saccharomyces cerevisiae, mitochondrial DNA-directed RNA polymerase from. 1368
  in Saccharomyces cerevisiae, recombination of. 3584
  from Schizophyllum commune mutant B str, lowered respiratory response to ADP of. 5473
  in sensitive and resistant Paramecium, effects of erythromycin and chloramphenicol on the ultrastructure of. 6707
  of Tetrahymena, protein synthesis in vitro with ribosomes of. 3356
  from Tetrahymena pyriformis, cytochromes of. 6622
  of Tetrahymena pyriformis, modifications of after the action of ethidium bromide. 7394
  of Tetrahymena pyriformis str ST, sedimentation characteristics after chloramphenicol-inhibited growth. 921
  of Tetrahymena pyriformis, succinate and DPNH- reducible O-type cytochromes in. 219
  of Ustilago maydis, genetic evidence for the action of oxothiin and thiazole derivatives on the succinic dehydrogenase system of. 6131
  from wild type and respiration-deficient yeast, osmotic and permeability properties of. 5998
  of wild-type yeast cells, preparation and heterogeneity of DNA of. 4159
  from yeast, chain elongating factors of. 709
  in yeasts, comparative studies on development of. 4071, 4077
  of yeast, effects of physiological and genetic manipulation on the anion transport systems of. 7482
  of yeast, lipids associated with cytochrome oxidase derived from. 4811
  of yeast, morphogenesis of. 6626
  use of yeasts with mutations in in the screening of new antibiotics. 4891
  of yeast, Neurospora and liver, isolation of a distinct rifampicin-resistant RNA polymerase from. 7223
  of yeast, phage DNA directed enzyme synthesis in in vitro system from. 5986
  of yeast, purification and properties of reduced diphosphopyridine nucleotide kinase from. 5330
**Mitochondria (genetically different)**, in Parameciu aurelia, evolution of mixed populations of. 3593
**Mitochondria (isolated)**,
  of Tetrahymena pyriformis, electron microscopic examination of. 1258
  of Tetrahymena pyriformis, energetics of in the presence of quinine and other antimalarial drugs. 1561
**Mitochondria (lipid)**, of Saccharomyces cerevisiae, composition of phospholipids during morphogenesis and effect on restoration of succinoxidase activity of. 6626
**Mitochondria (pro)**, of anaerobically grown yeast. 4248
**Mitochondria (unusual)**, in Halimeda tuna. 5184

**litochondrial activity** during citric acid production by Aspergillus niger. 6605
**litochondrial activity (anti)**, of drugs, yeast cell in. 6424
**litochondrial biogenesis**,
  in Neurospora crassa, ultrastructural and biochemical investigation of effects of anaerobiosis and chloramphenicol inhibition on. 965
  from Tetrahymena pyriformis, hypothesis of nuclear-mitochondrial interactions for. 1502
**litochondrial complementation**, in Neurospora crassa, in vitro study. 2002
**litochondrial effects** of copper limited growth of Torulopsis utilis. 2077
**litochondrial function**,
  of Tetrahymena pyriformis str ST, effect of chloramphenicol on. 922
  in yeast, influence of environment on. 7369
**litochondrial G factor**, from Neurospora crassa, fusidic acid resistance in. 326
**litochondrial genes** in Neurospora. 3296
**litochondrial genetics** in Paramecium. 3594
**litochondrial genetics** apparatus in Neurospora crassa, cooperation of mitochondrial and nuclear genes specifying. 6192
**litochondrial genome**,
  of wild type yeast cells. 4073, 4074
  in yeast, studies on the nature of. 4947
**litochondrial granules (intra)**, in Physarum polycephalum, effects of starvation and light on. 3448
**litochondrial inner membrane**, Tetrahymena pyriformis, fine structure of. 3946
**litochondrial leucyl-tRNA synthetases**, of Neurospora, effect of mutation and 'reversion' at the leu-5 locus on. 2159
**litochondrial membrane**,
  use of antibody to study the location of cardiolipin in. 7294
  of Saccharomyces cerevisiae, influence of carcinogenic carbides on the lipid structure of. 4291
  structural study by freeze-etch and freeze-fracture techniques. 19
**litochondrial membrane (internal and external)**, of Saccharomyces cerevisiae, separation of. 6151
**litochondrial membrane proteins**, in Saccharomyces cerevisiae, fate of during petite induction. 970
**litochondrial mutant**, of yeast, use of for screening for new antimetabolites. 5511
**litochondrial mutation** in yeast, mechanism of. 6763
**litochondrial parasites (intra)**, of a myxomycete, demonstration of tubular elements in. 6423
**itochondrial particles (sub)**, of Candida utilis, oxidation-reduction potentials of iron-sulphur centres in the respiratory chain in. 3428
**Mitochondrial phenotypes**, observations on in single paramecium cells. 4311
**Mitochondrial protein synthesis**, in Saccharomyces cerevisiae mutant, differentiation from cytoplasmic protein synthesis. 201
**Mitochondrial resistance** to tetracycline in Saccharomyces cerevisiae, genetic analysis of. 4387
**Mitochondrial ribosomes**, of yeast, highly active in protein synthesis, isolation of. 805
**Mitochondrial structure**, of Euglena gracilis, effect of antimycin A on. 3496
**Mitochondriogenesis**, comparison of Saccharomyces cerevisiae strs. 281
**Mitomycin C**, sensitivity of Blastocladiella emersonii spores to. 906
**Mitosis**,
  in Ascomycetes, role of during growth of filaments. 1916
  in Aspergillus nidulans, effects of griseofulvin on. 6695
  in Aspergillus nidulans spore germination. 95
  in Cladosporium herbarum. 6509
  in the grasshopper and some ciliates, effect of the seeds of Abrus precatorius on. 7392
  isolation and replication of ribosomal genes of Physarum during. 4375
  in Klebsormidium. 7049
  in Leucosporidium scottii. 5890
  in Membranoptera platyphylla, ultrastructure of. 7106
  in Palmellococcus, peculiarities of. 5232
  in Paramecium aurelia micronucleus. 1935
  of Physarum polycephalum, advancing the onset of. 616
  in Physarum polycephalum, cytoplasmic control of. 2485
  in Plasmodium berghei oocyst. 2509
  in Rhodosporidium and Aessosporon salmonicolor. 7124
  in Saccharomyces, genetic control of recombination in. 3486
  in Saccharomyces cerevisiae. 87
  in Schizosaccharomyces pombe, light and electron microscope study of. 630
  stimulation of following fusion of plasmodia in Physarum polycephalum. 5241
  in UV-irradiated plasmodia of Physarum polycephalum, advanced initiation of. 7382
  variation in in plant cells. 2822
**Mitosis (intranuclear)**, of Paracineta limbata and Ichthyothtirius multifiliis. 3233
**Mitosis (precleavage)**, in Arcyria cinerea, ultrastructural study of. 5239
**Mitosis (proto)**, in Polymyxa betae, contribution to. 2486

- **Mitosis (synchronous)**, in Physarum polycephalum, initiation of. 5882
- **Mitotic determination**, in Hematococcus pluvialis. 905
- **Mitral prosthesis**, mucormycosis in. 6244
- **MK-910**,
  - evaluation of in invasive amebiasis. 2257
  - treatment of hepatic amoebiasis with. 3662
- **Model**, yeasts used as in science and technology. 5529
- **Model (continuous or semicontinuous biological)**, prognosis of material composition of water in storage reservoirs with the aid of. 3242
- **Model (current)**, of somatic nuclear division in fungi, genetic implications of. 6771
- **Model (mathematical)**, of 2-component algal bacterial biocenosis. 6145
- **Model (multivariate general linear)**, analyses of spp densities by. 2555
- **Model organism**,
  - for comparative cytomorphological studies, Chlamydomonas as. 7047
  - Pedinomonas minor as. 5549
- **Model system**, Tetrahymena pyriformis as for membrane studies. 7300
- **Modelling (mathematical)**, of cell responses to irradiation. 4283
- **Moist-chamber**, for isolation and identification of Verticillium, adaptation of. 359
- **Moistening**,
  - of capsulated and non-capsulated forms of Cryptococcus albidus var diffluens, studies of processes of by spin-echo NMR method. 7448
  - soil aeration, nitrogen mineralization and humus production in East African soils after. 7003
- **Moisture content**, of lichen thalli, relationship with net assimilation rate and ecological significance. 4747
- **Molasses**, effect of adding nitrogen and vitamins on alcoholic fermentation of. 2404
- **Molecular basis** of maternal inheritance. 7476
- **Molecular biology** of Euglena gracilis. 6742
- **Molecular heterogeneity**, of iso-cytochrome c of yeast. 2705
- **Molecular weight**,
  - of alkaline proteinase from Aspergillus flavus, reinvestigation of. 6004
  - of Neurospora crassa mitochondrial proteins. 2000
  - of Neurospora crassa oligopeptides. 2001
  - of yeast pyruvate kinase. 1397
- **Mollusca contagiosa disseminata** in mycosis fungoides under combined glucocorticoid-cytostatic therapy. 3653
- **Moluscidide niclosamide**, assay of using Spirostomum ambiguum. 7458
- **Molybdenum**,
  - role in nitrate reduction by Chlorella. 1430
  - role of in synthesis of Neurospora nitrate reductase. 3321
  - from Chlorella, and nitrate-reducing system. 1432
- **Momenta (linear and angular)**, statistical model for initial and non-thermal vibrational-rotational population distribution of diatoms. 925
- **Monascin**, from Monascus purpureus, structure of. 4210
- **Monensin**,
  - anticoccidial activity of in floor-pen experiments. 6884
  - efficacy of in the prevention of hepatic coccidiosis in rabbits. 6886
- **Mongolia**, Agaricus bernardii in. 4733
- **Monica Mist**, for control of coffee berry disease. 5137
- **Monkey**,
  - Anopheles elegans as vector of malaria to in Ceylon. 2974
  - deep vascular schizogony of Plasmodium knowlesi in. 2308
  - effect of aflatoxin on. 2226
  - exoerythrocytic stages of malaria of. 3942, 45
  - evolution of fluorescent antibodies in in the course of experimental malaria. 2968
  - experimental model of denture stomatitis in. 2941
  - immunization of against Plasmodium cynomolgi by X-irradiated sporozoites. 4985
  - infected with human quartan malaria, nephrotic syndrome in. 485
  - infected with Plasmodium cynomolgi, destruction of erythrocytes in. 3739
  - malaria of. 2200
  - malaria in in Brazil. 1649
  - malaria infected, inhibitory activity of serum ultrafiltrates from. 488
  - malaria infected, Sephadex separation of inhibitory serum ultrafiltrates from. 489
  - nephrotic syndrome in after infection with human quartan malaria. 1748
  - normal and Plasmodium coatneyi-infected, fate of labelled haemoglobin in. 6315
  - transmission of central American Plasmodium vivax from to man. 5704
  - transmission of malaria in. 2971
  - transmission of malaria to in Brazil. 1650
  - transmission of Plasmodium falciparum betwee by the bite of infected Anopheles freeborni mosquitoes. 7611
  - Trichophyton mentagrophytes infection in and transmission to man. 4501
- **Monkey (Aotus)**,
  - experimental infection with Plasmodium

**Monkey (Aotus), contd.**
falciparum in. 5699, 5700, 5701
infected with Plasmodium falciparum, comparison of malarial antigens from blood of. 4984
**Monkey (Cynomolgus),** pathogenesis and immunological aspects of experimental histoplasmosis in. 6229
**Monkey (macaque),** acute toxicity of aflatoxin $B_1$ in. 2277
**Monkey (owl),** activity of 2 chlorinated lincomycin analogues against chloroquine-resistant falciparum malaria in. 3740
**Monkey (rhesus),**
cryptococcal dermotropism in. 2279
dermatophytosis in due to Microsporum canis. 3702
experimental cutaneous leishmaniasis in. 7590
studies on lipids of after Plasmodium knowlesi-infection. 2972, 2973
**Monkey (squirrel),** sporozoite transmission and serial blood passage of Plasmodium vivax in. 3743
**Monkey (woolly),** lethal toxoplasmosis in. 3745
**Monkey blood (malaria-infected),** centrifugal elutriation for the removal of leukocytes from. 954
**Monocarboxylic acids,** action on Candida tropicalis growing on hydrocarbon substrate. 2147
**Monoecism,** significance in taxonomy of Chara. 562
**Monogalactosyl diglyceride,** in Anabaena variabilis involvement in linoleate synthesis. 1464
**Monoglucosyloxyoctadecenoic acid,** from Aspergillus niger. 5406
**Monolinuron,** side effects on Erysiphe graminis and Cercosporella herpotrichoides on wheat. 1108
**Monophenolase activity,** of tyrosinase isozymes, spectrophotometric determination of. 712
**Monosaccharide uphill transporting cell membrane system** in yeasts, model of. 3361
**Monosaccharides,**
in baker's yeast, effect of uranyl ions on steady-state distribution of. 1520
of extracellular and capsule polysaccharides of yeasts. 227
in Histoplasma capsulatum and Blastomyces dermatitidis, cell walls. 224
in Histoplasma capsulatum and Blastomyces dermatitidis cell walls, content of. 1460
interaction of with haemagglutinins of mycetes. 7370
in Rhodotorula gracilis, transport of in the absence of metabolic energy. 1462
in Saccharomyces cerevisiae, facilitated diffusion of. 2660
**Monospore (germinating),** in Smithora naiadum, ultrastructural observations on. 5880
**Monospore culture analysis,** for yeast identification. 2776
**Monoterpenes,** growth inhibition of mycorrhizal fungi of Pinus silvestris by. 3805
**Monoterpenoids,** growth of wood-inhabiting fungi in saturated atmospheres of. 7415
**Monotylota ramburi,** life cycle and ultrastructure of the cephalin of Gregarina embiae parasitic in. 7133
**Monovalent ions,** effect of on polyribosomes of Paramecium. 7215
**Monotropa,** phylogeny and ecology of. 2400
**Morocco,**
Cyanophyceae of. 3993
microbial ecology of soils in. 6392
**Morphactin,** effect on sexual and asexual reproduction in fungi. 2063
**Morphogenesis,**
acquisition of cohesiveness by slime mould cells prior to. 5240
in Ascophyllum nodosum. 3956
of Ceramiaceae. 1267, 5873
in Clathrulina elegans. 5897
of Dictyostelium discoideum, relevance of to changes in cell surface charge density. 3144
of Doratomyces corda coremia. 636
effect of protein synthesis inhibition and osmotic shock on hyphal wall synthesis in Aspergillus nidulans. 94
in Griffithsia pacifica regeneration from single cells. 6493
of Mucor prainii sporangiophores. 617
of nucleate and anucleate Acetabularia cells, activity of phosphoglucose-isomerase and phosphoglucomutase during. 5959
in Trichoderma, photomimetic effect of acetylcholine on. 308
**Morphogenesis (cortical),** in Paramecium aurelia. 7492
**Morphogenesis (fungal),** various aspects of. 1861
**Morphogenesis (oral),** of Lacrymaria olor, observations on during regeneration. 7138
**Morphogenesis (prefission),** of Paramecium aurelia, role of protein synthesis in. 1288
**Morpholine derivatives,** problems in the development of. 5133
**Morphological variation,**
of Eremothecium ashbyii, correlation between riboflavin producing capacity and. 7303
of Trypanosoma brucei, in intact and X-irradiated mice. 5049
**Morphology,**
of calcareous nannoplankton, emphasis by interference contrast. 1562
of Chytriomyces, influence of nutrition on. 2812
of Dermatophilus congolensis, from different animals. 1029

- **Morphology, contd.**
  - of Oocystis lacustris, environmentally induced changes in. 1303
  - of Sclerotinia from Saskatchewan, variations and correlations within and between pathogenicity, pectolytic enzyme activity and. 5340
  - of Trichothyrium asterophorum. 5888
- **Morphology/physiology/pathogenicity**, of Sclerotium rolfsii isolates. 3064
- **Mortality**,
  - caused by Metarrhizium anisopliae, comparison between field-collected and laboratory-reared wireworm larvae. 1064
  - in the endemic Tilapia of Lake Chilwa, causes of. 6514
- **Mosaicism**, in Schizosaccharomyces pombe, influence of nuclear stage on induction of by nitrous acid. 1540
- **Moschiola meminna**, Trypanosoma ingens from. 4043
- **Mosquito**,
  - incidence of Coelomomyces in larval populations of in 2 Louisiana ponds. 5651
  - of the Lanao Plateau, Phillipines and status of the local malaria vector. 1652
  - mass production of Coelomomyces for control of. 7578
  - production of planonts by thin-walled sporangia of Coelomomyces indicus parasitic on. 6498
  - transmission of Plasmodium falciparum between monkeys by the bite of. 7611
  - transmission of Plasmodium knowlesi by. 2971
- **Mosquito-borne disease protection**, innovation in. 6843
- **Mosquitofish**, 2 new myxosporida from. 3939
- **Moss (sphagnales)**, decomposition of by pure fungal cultures. 6019
- **Moss (xerothermic)**, and lichen vegetation and flora in Urfttal between Sötenich and Nettersheim. 1339
- **Moss cover**, influence of on mycorrhisation in Pinus silvestris. 4626
- **Moss-living Discomycete** from Lapland. 4025
- **Moth (Indian meal)**, inflammatory response of to infection by Nosema heterosporum. 7605
- **Moth (pine)**, mortality factors of in the suburbs of Chiba City. 6867
- **Moth larvae (greater wax)**, enzymatic systems of Beauveria bassiana on the cuticle of. 3695
- **Motile microorganisms**, spectral analysis of laser light scattered from. 1833
- **Mould**, growth of on media prepared without organic nutrients. 2791
- **Mould (blue)**, of stored apples, postharvest chemical treatments for control of. 3113
- **Mould (blue and grey)**, in wounded apples, post harvest benomyl and thiabendazole for control of. 5165
- **Mould (dark-pigmented)**, from tomatoes, morphology and growth conditions of. 5755
- **Mould (grey)**,
  - resistance of strawberries to. 5741
  - of vine, biology of Botrytis cinerea and the development of. 7649
- **Mould (leaf)**, evaluation of tomato cultivar and hybrid resistance to. 6356
- **Mould (snow)**, of turfgrass in Saskatchewan. 5756
- **Mould (sooty)**, taxonomy of. 5198
- **Mould (Tuberculina maxima)**, occurrence on pine stem rust in Canada. 523
- **Mould (Typhula snow)**, on cold-stored strawberry runner plants, control of. 5792
- **Mould pellet**, oxygen transfer within. 3432
- **Mountain**,
  - occurrence of thecate amoebae in snow of. 134
  - occurrence of thecate amoebae in soil of. 683
- **Mountains (Ishizuchi)**, aerial and soil algae from. 5762
- **Mounting fluid (miracle)**, for permanent whole-mounts of microfungi. 6734
- **Mounting medium** for diatoms. 4313
- **Mouse**,
  - accelerated clearance of sporozoites of Plasmodium berghei from blood as part of immunomechanisms in. 5061
  - acquired immunity to Plasmodium berghei yoelii in. 2217
  - action of some drugs against Trypanosoma cruzi in the blood of. 1733
  - active and passive immunity in experimental toxoplasmosis in. 1668
  - Candida albicans meningitis in. 6862
  - causal prophylactic activity of standard antimalarials in malaria of. 5696
  - cell wall composition of Blastomyces dermatitidis with difference in virulence for 4751
  - cellular transference of immunity to malaria in 425
  - chemotherapeutic evaluation of clotrimazole in. 1728
  - coccidiodomycosis in as experimental animal model for testing antifungal substances. 6284
  - completion of life cycle of Eimeria vermiformi from in dexamethasone-treated rats. 5257
  - course of infection with radioactive phosphorus labelled Candida albicans in. 1061
  - development of asexual cycle of Eimeria vermiformis from in dexamethasone-treated rats. 2296
  - disturbed immunological responsiveness during Plasmodium berghei infection in. 4431
  - endoparasitism with Trichomonas vaginatis in. 2952
  - effect of antithymocyte serum on experimental toxoplasmosis in. 7517

ouse, contd.
  effect of betamethasone on Babesia infections in. 1741
  effect of complex yeast preparations as food supplement on the growth of Ehrlich's ascites tumour in. 6406
  effect of cortisone on experimental infections of with Leishmania donovani. 5669
  effect of inoculation of vegetative myxamoebae of cellular slime moulds in. 1721
  effect of interferon stimulator on experimental fungus infections in. 3697
  effects on of mycotoxin produced by Rhizoctonia leguminicola isolated from red clover forage. 4189
  effect of niridazole on experimental Schizotrypanum cruzi infection in. 5672
  effect of specific genotypic alterations on the virulence of Aspergillus nidulans for. 1629
  effect of standard bacterial vaccine on infection with Toxoplasma gondii in. 7518, 7519
  experimental cutaneous leishmaniasis in. 7590
  experimental Encephalitozoon cuniculi infection in. 1743
  experimental Naegleria meningoencephalitis in. 2290
  experimental paracoccidioidomycosis in. 5652
  experimental study of the activity of certain drugs on zoites and cyst development of Toxoplasma gondii in. 5708
  experimentally infected with Trypanosoma cruzi, effect of 6-propylthiouracil-induced hypothyroidism in. 6304
  exposed to X-irradiation, distribution of parasitic intestinal flagellates in. 5668
  fine structure of macrogamete of Eimeria falciformis from. 603
  fine structure of schizonts and merozoites of Eimeria falciformis from. 6476
  fungal filtrate with pronounced inhibitory action against Semliki Forest virus in. 4180
  hepatorenal damage induced in by products of Penicillium viridicatum. 3058
  immunization of with virulent trypanosomes in a diffusion chamber. 2865
  immunity in after infection with Trypanosoma evansi. 1005
  immunosuppression of malaria in. 1666
  induction of lupinosis in by Cytospora growing on dead lupins. 3387
  infected with Babesia rodhaini, protective effect of haemolytic serum on. 4980
  infected with malaria parasites, depression of antibody responses to tetanus toxoid in. 7514
  infected with oncogenic viruses, enhancement and prolongation of Babesia microti infections in. 6882
  infected with Plasmodium berghei, antibody response to influenza virus and sheep erythrocytes of. 6238
  infected with Plasmodium berghei, antimalarial in. 483
  infected with Plasmodium berghei yoelii, protein calorie malnutrition and splenomegaly in. 7610
  infected with trichophytosis, effect of oral application of Amphotericin B on. 1065
  infection of Glossina morsitans by Trypanosoma brucei in relation to parasitaemia in. 5048
  influence of ambient temperature on the course of experimental trypanosomiasis in. 5051
  inoculated with purified Plasmodium berghei antigen, modifications of the lysosomal enzymes of the macrophages in. 5694
  interferon and protection of against experimental Plasmodium berghei infection. 2304
  kinetics of appearance of cysts and antibodies in experimental toxoplasmosis of. 4530
  lack of toxicity of Helminthosporium maydis-invaded corn and culture filtrates to. 1183
  malaria infected, Sephadex separation of inhibitory serum ultrafiltrates from. 489
  mechanism of action of viral inducer of interferon in protection of against massive infestation by Plasmodium berghei. 3620
  metabolism and distribution of $^{14}$C-polysaccharide from Candida tropicalis in organs and tissues of. 5782
  mutation induction in Neurospora crassa incubated in. 6187
  mycotoxicosis induced in by Penicillium ochraceum. 3703
  nosematosis and toxoplasmosis in. 1751
  occurrence of atypical lymphocytes following intravenous injection of Candida albicans in. 1727
  occurrence of lymphomas and lupus erythematosus-like syndrome in the course of experimental Candida albicans infection in mice. 6291
  ocular toxoplasmosis in. 1090
  parasitised by Plasmodium, relation to erythrocyte morphology. 5064
  phototoxic syndrome induced in by rice cultures of Penicillium viridicatum and exposure to sunlight. 1730
  presence of Giardia muris in tissues and organs of after spontaneous infections. 3707
  protective effect of various tissues and dilution fluids on toxoplasma in the stomach of. 6320
  protein concentrations during Plasmodium berghei infection of. 4523
  resistance to tumours in conferred by chronic infection with Toxoplasma gondii and Besnoitia jellisoni. 3622
  role of the thymus in Plasmodium berghei

**Mouse, contd.**
  infection of. 5695, 7609
  seizure induction by pentylenetetrazol in, after oral Candida albicans glycoprotein. 1481
  selective effects of thermal injury on peritoneal macrophages of. 6102
  serum protein patterns in following primary and challenge infection with Plasmodium berghei. 1084
  splenomegaly and antibody titre in malaria in. 1045
  sporozoite-induced oral route Plasmodium berghei infections in. 1085
  susceptibility of to Paracoccidioides brasiliensis using different routes of inoculation. 6857
  therapeutic effect of trypanocidal drugs on malaria in. 1087
  toxic effects in of corn cultures of Penicillium. 2946
  transmission of Eimeria contorta to. 2297
  transmission of Trypanosoma cruzi infection to opossums via. 4510
  treated with serum and infected with Trypanosoma lewisi, reaction of. 1006
  unsuccessful attempt to transmit toxoplasmosis to from faeces of artificially infected sheep. 5066
  vaccination of against malaria with heat inactivated parasitized blood. 4982
**Mouse (adrenoovariectomized),** inhibition of mammary tumorigenesis by ergot alkaloids and promotion of mammary tumorigenesis by pituitary isografts. 4820
**Mouse (African),** preliminary note on description and biological cycle of Klosiella mabokensis in. 1931
**Mouse (AKR),** resistance of to lymphoid leukaemia associated with chronic protozoan infection. 1664
**Mouse (CBA),** effect of thymectomy on the course of infection of with Leishmania tropica. 4506
**Mouse (CFW),**
  influence of gonadectomy on Candida albicans urinary tract infection in. 4497
  sex differences in antibody response of to Candida albicans. 5597
**Mouse (experimentally infected),**
  appearance of dyskinetoplastic forms of Trypanosoma gambiense provoked by ethidium bromide in. 1074
  existence of non-flagellated forms of Trypanosoma gambiense in the choroid plexus tissues of. 4511
**Mouse (field),** determination of degree of sensitivity of to the development of infection by Toxoplasma gondii. 1089
**Mouse (germ free and conventional),** influence of antibiotics or certain intestinal bacteria or orally administered Candida albicans in. 1726
**Mouse (gravid),** effect of Trypanosoma cruzi infection on embryogeny in. 1070
**Mouse (inbred A/J),** variations in virulence of Plasmodium berghei for. 2303
**Mouse (intact and X-irradiated),** fluxes of morphological variants of Trypanosoma brucei in. 5049
**Mouse (irradiated),** growth of Theileria parva-infested bovine lymphoid cells in. 4527
**Mouse (laboratory)**
  attempts to transmit Babesia microti in by Rhipicephalus appendiculatus. 5683
  identification of parasitic forms of Emmonsia, Chrysosporium pruinosum, moniliaceous fungi from the lungs of. 6865
**Mouse (multimammate),** experimental infections o with Trypanosoma spp. 2286
**Mouse (nonsensitized),** fatal anaphylaxis-like reaction induced by yeast mannans in. 3691
**Mouse (NZB and hybrid),** malaria infection in. 2305
**Mouse (SPF),** antibiotic decontamination for securing. 917
**Mouse (Trypanosoma congolense-infected),** immunologic-mediated protection of by polyribonucleotides. 3612
**Mouse (white)**
  concurrent infection of with Trypanosoma cruzi and Schistosoma mansoni. 1072
  dynamics of parasitemia during nuttalliosis of. 2961
  effect of temperature on local Candida albicans lesions in. 466
  experimental leishmaniasis meningoencephaliti of. 1069
  transmission of Eimeria chinchillae to. 479
**Mouse embryo,**
  development of Plasmodium berghei berghei in. 5698
  notes on the evolution of Trypanosoma equiperdum in. 2285
  observations on the evolution of rodent malaria in. 2301
**Mouse liver,** ultrastructure of Trypanosoma cruzi in. 1888
**Mouse peripheral blood leucocytes,** role of complement in phagocytosis of Candida albicans by. 2207
**Mouse peritoneal macrophages,** effects of concanavalin A and pokeweed mitogen in viv on. 7389
**Mouth,**
  effect of denture adhesives on microorganisms of. 2070
  histoplasmosis of. 3627
  of man, trichomonads of. 4749

**ovement,**
  in Aphanomyces cochlioides. 4908
  of Cricosphaera, association with plant growth substances. 3393
  of Difflugiella pseudopods. 5223
  inhibition of by autogenous substances in Hartmannella. 6112
  of Leishmania tropica promastigotes in an electric field. 5481
  of small Amoebae, relation to rotation of fibrillar processes. 3121
**ovement (amoeboid),** origins, accompanying phenomen and control of. 5175
**ovement (bacterial),** measurement of by cultivation with Rhizopus nigricans. 930
**ovement (cell),** evidence for a new mechanism of. 5176
**ovement (gliding),** in blue-green alga, energy expenditure for. 3119
**wer clippings,** control of lawn grass diseases without fungicides by removal of. 2341
**cilage,**
  of Gloiopeltis tenax, changes in the structure of by alkaline treatment. 7357
  from the ripe fertile frond of Undaria pinnatifida f. distans. 4155
  of Rhodophyceae, studies on. 4205
**cocutaneous candidiasis (chronic),**
  associated abnormalities of iron metabolism in. 5013
  influence of thyroid status on. 6822
  transfer factor in the treatment of. 5008
**cocysts,** of Tetrahymena, membrane reorganisation during discharge of. 1938
**cormycosis,**
  in a mitral prosthesis. 6244
  of the pig, Rhizopus cohnii in. 7579
**cormycosis (naso-orbito-cerebral),** case of. 1010
**cormycosis (naso-orbito-ciliary),** case of. 6243
**cosa,**
  leishmaniasis of. 5023
  leishmaniosis of in Chad. 6832
  treatment of. 1697
**cosubstance (acid),** in Eimeria intestinal tissue stages, cytochemical localization of. 4803
**cus synthesis,** in 2 marine slugs, photosynthetic products and contribution to of symbiotic chloroplasts. 5425
**lberry (roselle),** occurrence of powdery mildews of in Egypt. 3760
**llet,** trypanosomiasis in. 1739
**ltielectron transfer (intramolecular),** use of L-lactate cytochrome c oxidoreductase of Hansenula anomala in. 1978
**ltiple fission,** in Prototheca, control of daughter-cell number variation in. 6489
**Multiplication** of single-celled organisms, influence of urban low- and radio-frequency electromagnetic fields on. 7391
**Mummies,** evidence of infective disease in. 6789
**Mural endocardium,** active infective endocarditis confined to. 5624
**Murein,** of Proteus mirabilis, action of N-acetylmuramidase from Limax amoeba on. 188
**Murein-lipoprotein complex,** of Escherichia coli cell walls, degradation of by Dictyostelium amoebae. 4810
**Mus musculus,** see Mouse.
**Muscapurpurin/Muscarubrin/Muscaaurin II/ Muscaflavin,** of Amanita muscaria. 869
**Muscardine fungi** pathogenic to Diaprepes abbreviatus. 6869
**Muscle,** actin of, comparison with myxomycete plasmodium actin. 792
**Muscle (voluntary),** effects of antiprotozoal diamidines on. 6896
**Muscle native tropomyosin,** cross reaction with myxomycete plasmodium F-actin. 4133
**Muscular affection** in scleroderma, investigations on. 4997
**Mushroom,**
  cultivation of. 5778, 5779
  growing at Angmering. 2407
  growth of in plastic bags. 5777
**Mushroom (commercial),** control of Verticillium disease of. 526
**Mushroom (edible),** steeping preservation of. 7693
**Mushroom (freeze-dried),** effects of blanching, chemical treatments and freezing methods on quality of. 2406
**Mushroom (frozen),** thaw indicator as asset in sale of. 2780
**Mushroom (home-preserved),** botulism caused by a type A excitant and associated with use of. 3827
**Mushroom growing** in 1971. 3100
**Mushroom production (commercial).** 6404
**Mushroom stones** from Guatemala, new records of. 2421, 5175
**Mushroom symbolism** in Maya Codices. 7722
**Mushroom volatiles,** characterization of. 1497
**Muskmelon,** occurrence of Cercospora citrullina on. 4569
**Mustelid,** natural infection of with Trypanosoma cruzi. 1734
**Mutability (spontaneous),** in yeast, inheritance of. 2165
**Mutagen specificity,** in Neurospora crassa, analysis of a case of. 6121
**Mutagenic action** of sodium sulphite on yeast, data on. 5490
**Mutagenic agents,**
  effect of in Neurospora crassa. 1534

**Mutagenic agents, contd.**
  use of for breeding of Eremothecium ashbyii. 6119
  use of in the selection of vinous yeasts. 1538
**Mutagenic effect,**
  induced in Saccharomyces cerevisiae by breakdown products of 1-naphthylamine and 2-naphthylamine formed in an enzyme-free hydroxylation system. 5491
  of phenethyl nitrogen mustards and ethyleneiminopyrimidines in Aspergillus nidulans. 2743
**Mutagenic factors,** genetic control of sensitivity to in Aspergillus nidulans. 4392
**Mutagens,**
  determination of by the urine test with Saccharomyces cerevisiae. 2115
  selection of vinous yeasts with the use of. 2173
**Mutagens (chemical),** effect on survival and reversion of mutant str of Fusarium. 3491
**Mutagens (different),** correlation between origin of mutants of Ascobolus immersus induced by. 4377
**Mutants,**
  of Aspergillus nidulans lacking pyruvate carboxylase. 2840
  of Aspergillus nidulans unable to use choline-0-sulphate. 976
  of asporogenous yeast susceptible to staining on medium containing eosine and methylene blue, selection of. 980
  of Chlamydomonas reinhardi, defective in protein synthesis. 194
  of Chlorella, resistant to ethionine. 323
  of Chlorella vulgaris, sensitive to UV, capacity of to photoreactivation. 315
  of Euglena, resistant to N-methyl-N-nitroso-p-toluenesulfonamide. 316
  with impaired antibiotic synthesis, genetic analysis in Actinomyces rimosus. 402
  of malaria parasites. 405
  in Paramecium aurelia, with altered system of excitation. 2184
  of Saccharomyces cerevisiae, defective in purine synthesis, indentification of. 967
  Saccharomyces cerevisiae, at the ilvl-gene locus. 388
  selection of in Tetrahymena pyriformis. 2187
  of Streptomycin-producing organism, natural variation of. 983
  of yeast, cardiolipin content, relation to mitochondrial function and development. 235
  of yeast defective in mutation induced by UV. 390
  of yeast, deficient in meiotic recombination, system selective for. 1611
**Mutants (aggregateless),** of Dictyostelium discoideium, induction of fruiting in. 2823
**Mutants (amycelial),** of Neurospora crassa, conidial differentiation in. 624
**Mutants (arginine requiring),** of Chlamydomonas reinhardtii, conditional expression of. 6613
**Mutants (auxotrophic),**
  of Aspergillus niger, citric acid synthesis by. 977
  of Aspergillus niger, citric acid synthesis by forced heterocaryons between. 979
**Mutants ($b_1$ or $b_2$),** of Ascobolus immersus, relationships between the genetic alterations in and their conversion spectrum. 6183
**Mutants (bleached),** of Euglena gracilis, novel closed circular duplex DNA in. 6564
**Mutants (conditional lethal radiosensitive yeast),** isolation genetical and radiobiological characteristics of. 3585
**Mutants (colourless facultative),** of Ascobolus immersus. 7477
**Mutants (constitutive),** of quinic acid catabolism in Neurospora crassa. 387
**Mutants (dome morphological),** in Schizophyllum commune. 397
**Mutants (double),** of Saccharomyces cerevisiae, involving uvs9 and rev, some properties of. 2086
**Mutants (drug resistant),** of Dictyostelium discoideum. 385
**Mutants (fatty acid desaturase),** of yeast, growth requirements and electron spin resonance spin-label distribution of. 2837
**Mutants (inositol-less),** of Pyricularia oryzae, isolation of by UV irradiation. 974
**Mutants (mitochondrial),** of yeasts, use of in the screening of new antibiotics. 4891
**Mutants (multiple),** of Saccharomyces cerevisiae. 3582
**Mutants (non-foaming),** of sake yeasts, selection by cell agglutination and froth flotation methods. 972
**Mutants (petite),**
  conditions that prevent induction of by ethidium bromide. 1539
  induced in yeast by optical brighteners. 1536
  in Saccharomyces cerevisiae, fate of mitochondrial membrane proteins and DNA during induction of. 970
**Mutants (phosphoglucoisomeraseless),** of Saccharomyces cerevisiae, glucose and fructose metabolism in. 225, 1364
**Mutants (purple),** of Neurospora crassa, identification of genetic alteration of hydroxylamine induced. 897
**Mutants ($rib_7$),** of Saccharomyces cerevisiae, formation of 6-hydroxy-2,4,5-triamino-pyrimidine in. 2831
**Mutants (saturated fatty acid),** of yeast, membrane properties of revealed by spin labels. 2833

**utants (slow-growing non-perithecial)**, of Aspergillus nidulans, biochemical investigations of. 975
**utants (spontaneous and nitrous acid induced)**, of Schizosaccharomyces pombe, genetic background effects on. 1618
**utants (temperature-sensitive)**, of Saccharomyces cerevisiae, mitochondrial and cytoplasmic protein synthesis in. 201
**utants (temperature-sensitive, respiration-deficient)**, of yeast, phenotype of. 2834
**utants (trehalaseless)**,
  of Neurospora, properties of an inhibitor of trehalase in. 1979
  of Neurospora crassa. 386
**utants (tryptophan requiring)**, genetic investigation in Aspergillus nidulans. 400
**utants (uninducible)**, in gal i locus of Saccharomyces cerevisiae. 4380
**utants 22B (Cladosarum-like)**, of Aspergillus aureolatus, physiological properties of. 6212
**utase (phosphoglycerate)**, of yeast, phosphorylation of. 773
**utation**,
  in Candida lipolytica, X-rays causing. 322
  cytoplasmic petite induction by antibacterial antibiotics. 328
  in eukaryotes. 4391
  in fungi, induction by tris(1-aziridinyl) phosphine oxide. 898
  induced with γ-rays in the field bean. 1761
  at the leu-5 locus of Neurospora crassa. 2159
  in Neurospora crassa, effect on lipid synthesis. 1465
  in Ustilago maydis, induction by 5-fluorouracil and amino acid analogues of. 320
**utation (novel)**, causing derepression of several enzymes of sulphur metabolism in Neurospora crassa. 2829
**utation (pleiotropic)**, in Podospora anserina, analysis of. 1608
**utation (unlinked)**, in Neurospora crassa, control of purine metabolism affected by. 2826
**tational process (spontaneous)**, rate of in X-ray sensitive mutants of Saccharomyces cerevisiae. 2168
**tator activity** in uvs mutants of Aspergillus nidulans. 5582
**tator a-sex** in Saccharomyces norbensis SBY 2314. 6206
**ycangium (prothoracid)**, of Dentroctonus frontalis, fungal symbionts in. 7189
**ycelial cells**,
  of Pyricularia oryzae, metabolism of Inezin$^{R}$ by. 4896
  of Pyricularia oryzae, metabolism of Kitazin P$^{R}$ by. 4895
**Mycelial growth**, of Endothia parasitica, stimulation of growth of by heavy metals. 1513
**Mycelial growth (rhythmic)**, in Podospora anserina. 2494
**Mycelial growth filtrate** of Histoplasma duboisii, biochemical characterization and skin test sensitivity of. 4425
**Mycelial phase**, of Histoplasma capsulatum, factors affecting conversion to yeast phase. 6105
**Mycelial strand induction**, in Serpula lacrimans, effect of nutrient distribution on. 2814
**Mycelial suspensions**, ultrasonic preparation of. 6155
**Mycelial wall**, of Basidiomycete QM 806, structure of β-D-glucan from. 5390
**Mycelium**,
  of Agaricus bisporus and Coprinus comatus, effect of some bioactive compounds on nitrogen metabolism in. 5377
  of Agaricus bisporus, utilization of 1,2[$^{14}$C]oxalate by. 5437
  analysis of free amino acid pools in. 4141
  of Aspergillus giganteus, endogenous respiration in. 2727
  of Aspergillus oryzae, low temperature difference spectra of mitochondria from grown with and without chloramphenicol. 4214
  in the Basidiomycetes, biology of. 34
  of Botrytis cinerea, comparative sensitivity to γ radiation of. 7388
  of Fusarium culmorum, lipid content of. 1470
  growth of in forest soil layers. 3818
  of some Hyphomycetes, morphological changes of. 2069
  isolation of highly polymeric DNA from. 1369
  of Neocosmospora vasinfecta, bicarbonate fixation by. 163
  of Phycomyces blakesleeanus, mechanism of translocation of potassium in. 2696
  of phycomycetes, ramification and hyperramification of. 3450
  of Podospora anserina, effect of metabolic inhibitors on rhythmic growth of. 625
  of Trichothecium roseum, lipid fraction of during the first stages of growth. 4177
  turgor pressure of. 552
  of Ustilago maydis, in tissues of pathological neoplasms of smutty corn. 2343
  of Verticillium spp, protein composition of. 214
**Mycelium (resting)**, of Verticillium albo-atrum, fine structure of. 3178
**Mycelium (subcuticular)**, of Rhynchosporium secalis, resistance of barley vars to establishment of. 1782

**Mycelium (submerged)**, of Agaricus compestris, effect of different carbon compounds on. 1593
**Mycelium (vegetative)**, of Doratomyces corda, relation to fruit bodies. 636
**Mycetangia**, of ambrosia beetle, associated fungi of. 2403
**Mycetoma**,
  case of in Tahiti. 449
  of the lungs caused by Aspergillus. 3633
  progress in serological diagnosis of. 941
**Mycetoma (intracavitary)**, surgical implications of. 1017
**Mycetoma (maduromycotic)**, in an aged mare. 6295
**Mycetoma (nape and scalp)**, in Africans. 3649
**Mycetomal micro-organisms** and total lipid and phospholipid in grannary weevils. 4035
**Mycobacillin inhibition reactions**, reversals of by sterols and phospholipids. 2752
**Mycococci**, from lithophilous lichens, morphology of. 4748
**Mycodiplosis larvae**, feeding on rust fungi. 503
**Mycoferritin**, from Mortierella alpina, purification and properties of. 6616
**Mycoparasites**, as producers of fungicidal antibiotics. 2033
**Mycorrhiza**,
  from Cercocarpus montanus and C. paucidentatus, histology of. 48
  in Crotolaria vespertilio. 1800
  of Douglas fir, characterization and classification of Pseudotsuga menziesii and Rhizopogon vinicolor. 90
  effect of phosphate fertilisation on soybeans with and without. 3082
  formation of in monoxenic culture by pond pine. 6386
  and litter decomposition. 125
  of orchid, electron microscope study. 43
  of orchid, fine structure of the host-fungus interface in. 1247
  of pea roots, ultrastructure of. 124
  of pine, production of volatile organic compounds by. 237
  of strawberry plants, caused by Rhizoctonia fragariae. 521
**Mycorrhiza (ecto)**,
  formation of on half-sib progenies of slash pine in aseptic culture. 3807
  of pine. 3805
  of Pinus sylvestris, growth inhibition of pathogenic fungi by volatile organic constituents of. 6996
**Mycorrhiza (endogonaceous)**, synthesised in Leptospermum. 1173
**Mycorrhiza (endotrophic)**,
  and nutrition of grape vines. 2401
  of orchids, light and electron microscopy of. 6385
**Mycorrhizae (tuberculate and Cenococcum)**, of Photinia. 3806
**Mycorrhiza (vesicular-arbuscular)**,
  effect of phosphate and other nutrients on development of in culture. 3452
  plant growth responses to. 4625
  replanting of vineyards and relation to. 4615
  and tropical legumes. 1172
**Mycorrhizal association** between Rhizopnagus and Litchi chinensis. 1793
**Mycorrhizal enhancement** of water transport in soybeans and nutrient status. 6377
**Mycorrhizal fungus**,
  aromatic substances in leaves of Populus tremula as inhibitors of. 1795
  Hebelomas as. 6381
  imoculation of rooted basswood cuttings with. 356
**Mycorrhizal infection**, effect of soil fumigation on. 7002
**Mycorrhizal sheath (ectotrophic)**, in conifer seedlings, relationship between oxygen transport and formation of. 4618
**Mycorrhization** in Pinus silvestris, influence of moss cover on. 4626
**Mycoserology (diagnostic)**, by immunoelectro-osmophoresis. 2130
**Mycoses**,
  impact of in a single hospital. 6778
  increasing incidence of. 2193
  in Lucknow, observations on. 6777
  of Oceania. 2194
**Mycoses (deep)**, regional peculiarities of. 5634, 6827
**Mycoses (genital)**, survey in Hamburg. 444
**Mycoses (indigenous systemic)**, epidemiology and microbiology of. 1635
**Mycoses (opportunist)**, in invasive amoebiasis. 3668
**Mycoses (phyco- pulmonary)**, associated with lymphocyte depletion. 427
**Mycoses (pulmonary)**, chemotherapeutic agents for. 2241
**Mycoses (superficial)**, incidence of at the Hôpital Sainte-Justine in Montreal. 2195
**Mycoses (systemic)**,
  in dogs and cats. 2283
  genitourinary tract involvement with. 6260
**Mycosis fungoides**,
  bleomycin in. 2244
  with dermatomyositis. 3652
  granuloma annulare-like pattern in. 5637
  nonspecificity of characteristic cells in. 450
  management with superficial X-rays and strontium 90 therapy, comparison of. 2246
  with Mollusca contagiosa disseminata under combined glucocorticoid-cytostatic therapy. 3653

**Mycosis fungoides, contd.**
  otolaryngologic aspects of. 2903
  pathogenesis of. 1696
  and Sezary's syndrome. 2243
  survival prognostic features, response to therapy and autopsy findings. 3650
  treatment of pleuropulmonary form with sclerodermiform cutaneous manifestation. 6269
  topical fluorouracil treatment of. 5019
**Mycosis fungoides (human)**, generalized cutaneous eruption in a dog with histological similarity to. 3706
**Mycosis fungoides bullosa.** 1698
**Mycotoxicosis** as probable cause of infertility in dairy cows. 2943
**Mycotoxin,**
  analysis by chromatography. 354
  contamination of South Vietnamese rice with. 538
  detection of in hens. 2948
  preparation of. 836
**Mycotrophy** of meadow plants in relation to the use of fertilisers. 3281
**Myelin figures,** in unfixed, freeze-etched fungus spores, demonstration of. 2788
**Myers medium** for growing Chlorella pyrenoidosa. 346
**Myocardial necrosis (fatal),** caused by Toxoplasma myocarditis. 6849
**Myosin,**
  from Physarum, filament formation by. 7267
  from Physarum polycephalum, electron microscope observations on. 4675
**Myrochromanol/myrochromanon,** from Myrothecium roridum. 4220
**Myrotheciotoxicosis (experimental),** in sheep and calves. 2281
**Mystromys albicaudatus,** transmission of Eimeria chinchillae to. 479
**Mytilus edulis,** Peniculistoma mytili from. 4693
**Myxamoebae,**
  of Dictyostelium discoideum, enzyme synthesis during differentiation of in axenic culture. 3311
  of Dictyostelium discoideum, extracellular concentrations of cyclic AMP during axenic growth of. 3960
**Myxamoebae (vegetative),** effect of inoculation of in mice, rats and guinea pigs. 1721
**Myxobacteria (algicidal nonfruiting),** with high G + C ratios. 1362
**Myxomycete,** comparative investigation of the quaternary structure of muscle actin and plasmodium actin. 792
**Myxosporidia** of Synodontisansorgii. 5860
**Myxosporidiosis** in coho salmon. 5688

# N

**NAD,** in Candida albicans, effect of 4-bromobenzyl isothiocyanate on the redox state of. 3470
**NAD$^+$-independent activity of D-glucose-6-phosphate,** L-myo-inositol-1-phosphate cycloaldolase from Neurospora crassa, effect of $(NH_4)_2SO_4$ and glycerol on preservation of. 5325
**NAD$^+$specific glutamate dehydrogenase,** from Neurospora crassa, amino acid composition and properties of. 797
**NADase,** in Neurospora crassa synchronous conidiation, patterns of. 1394
**NADH-ferricyanide reductase,** of Torulopsis utilis, purification and properties of. 767
**NADP,** as an obligatory intermediate in photosynthesis. 4197
**NADP (assimilatory reduced),** in vitro formation of. 2597
**NADP (reduced and oxidized),** interaction of oxidized and 2-electron reduced yeast glutathione reductase. 2640
**NADP$^+$ specific yeast glutamate dehydrogenase,** effect of phosphate on the oxidative deamination of glutamate. 181
**Naganol-treated and untreated white rats,** biometrical study of Trypanosoma evansi in. 6877
**Nagana,** histopathological findings in the nervous system and other organs of treated and untreated horses reacting to. 5673
**Nail,**
  localization of Microsporon furfur under. 2898
  localization of Microsporon furfur under as cause of relapses in Pityriasis versicolor. 1672
  recalcitrant candidiasis of. 1692
**Nail specimen,** laboratory mill for pulverization and homogenization of. 5541
**Nalidixic acid,**
  action of on Anacystis nidulans and Anabaena doliolum. 4869
  prevention of induction of yeast cytoplasmic respiration-deficient mutants by intercalating drugs by. 5450, 5492
**Nanorchestes antarcticus,** from the Antarctic, food habits of. 537
**Nape mycetoma** in Africans. 3649
**Naphtha-quinone pigments,** from Torula herbarum, isolation and characterization of. 848

**1,2-Naphthoquinone**, effect of on catechol 1,2-oxygenase from Trichosporon cutaneum. 5356
**Naphthoquinone (2-Hydroxy,3(cyclohexyloctyl)-1,4-)**, effect on Plasmodium gallinaceum oocysts. 2107
**1,4-Naphthoquinone derivatives**, synthesis of. 5444
**Naphthoquinone metabolites**, from Cylindrocarpon. 5443
**Naphthothiophenes** as antimalarials. 4309
**1- and 2-Naphthylamine**, mutagenic effects induced in Saccharomyces cerevisiae by the breakdown products of. 5491
**Naphthylamine aminoquinaldine (sulphonated)**, effect on Trypanosoma evansi in rats. 2094
**Napkin rash**,
  alimentary Candida albicans and. 5622
  skin flora of infants with. 1681
**Naringenin**, microbial transformation of. 1461
**Naringin**, microbial transformation of. 1461
**Nasal sinuses (para)**, invasion of by Madurella mycetomi in a Congolese child. 1691
**Nasal swab**,
  in military communities, relation between the finding of amoebas of the limax group in and epidemiological indices. 6221
  relation between the presence of amoebas of the limax group in and pathological finding in nasal mucosa. 4965
**Nasua nasua (newborn)**, uncontrolled Microsporum gypseum infection in. 2280
**Natal**, superficial fungal diseases of. 4959
**Natamycin**,
  Fusarium solani keratitis treated with. 7546
  in vitro fungistatic activity of. 913
**Natural sources**, rose bengal as selective aid in the isolation of fungi and actinomycetes from. 6736
**Neck rot** of apple trees. 3063
**Necropsy**, cultural and morphological findings in cervical and mediastinal lymph nodes at with reference to fungi. 4457
**Necrosis** of the right colon, case report. 6840
**Necrosis (bud)**, of tulips, influence of ethylene and mites on. 6960
**Necrosis (collar)**, anatomical studies of in Colza disease caused by Leptosphaeria maculans. 6911
**Necrosis (papillary)**, in a transplanted kidney. 2883
**Nectarine**, heated wax-emulsions with benomyl and 2,6-dichloro-4-nitroaniline for control of post harvest decay of. 4642
**Nectarine (California)**, preharvest benomyl sprays and postharvest wax-fungicide treatments for control of decay of. 2369
**Needles (healthy and ozone-injured)**, of Pinus strobus, susceptibility of to invasion by Lophodermium pinastri and Aureobasidium pullulans. 6913
**Needle cast**, caused by Lophodermium, incidence and control of on Scotch pine nursery seedlings. 6912
**Nekton**, biohydrodynamic differences of from plankton. 4728
**Nematocides**, effect of on activities of microorganisms in soil. 4628
**Nematode**,
  attraction and killing of by Arthrobotrys dactyloides. 7470
  effect on the resistance of the pea to Fusarium wilt. 2360
  interaction with Fusarium on peas. 3048
  on sugarbeet, effect of Aphanomyces cochlioide and Pythium ultimum alone and as complexes with. 1160
**Nematode (cyst)**, soybean resistant to. 5715
**Nematode (free-living marine)**, pennate diatoms a ectocommensals of. 1300
**Nematode (root knot)**, greenhouse evaluation of on cotton. 4582
**Nematode population**, in a peanut field effect of post-emergence application of potassium azide on. 6982
**Nematode-trapping fungi**,
  effect of on the morphometrics of Aphelenchus avenae. 1832
  ultrastructure of. 5843
**Nematode-trapping organ**, in Arthrobotrys oligospora, scanning electron microscopy of 4681
**Nematophagous Hyphomycetes**, Harposporium as. 5215
**Neogene (northern Italy)**, detailed observations on some Orbulina tests from. 1256
**Neomycin**,
  effect on cell division, growth and nucleic acid in synchronized Chlorella cells. 3495
  securing SPF-mice by decontamination with. 917
**Neoviasept**, treatment of amebiasis with. 2911
**Nepal**, biological study of Kalimati taken from Katmandu in. 3800
**Nephritis** in Africa, immunopathology of. 7499
**Nephritis (acute)**, coincidence of with congenital toxoplasmosis with nephrotic syndrome. 6851
**Nephropathy** of Kala-Azar. 7557
**Nephrosis**, in monkey infected with human quartan malaria. 485, 1748
**Nephrotic syndrome**,
  association of with quartan malaria in Uganda, progression and remission in. 7571
  in Nairobi, role of malaria in aetiology of. 44
**Neritic community**, relative importance of nannoplankton and netplankton as primary producers in. 2536

**ervous coccidiosis.** 6888
**ervous symptoms (clinically recognizable),** development of in nagana-infected horses treated with subcurative doses of antrypol and berenil. 5050
**ervous system,** of horses, histopathological findings in experimental treatment of Trypanosoma brucei infections of. 5673
**ervous system (autonomic),** light and electron microscope studies of in the experimental and human trypanosomiasis. 2255
**ervous system (canine),** toxoplasmosis of. 2313
**etherlands,**
  limnological studies on lakes in. 4010
  rediscovery of Mortierella rostafinskii and Mortierella strangulata in Baarn in. 6537
**euritis (experimental allergic),** in rabbits, effect of trypanosomiasis on. 471
**eusiedlersee,** occurrence of Lampropedia hyalina in. 2512
**eutrons (fast),** effect on Aspergillus niger and Funaria hygrometrica spores. 2744
**eutrophils (human),** inhibition by sulphonamides of candidacidal activity of. 2101
**ew Guinea,**
  isolation and identification of a new unsaturated $\alpha$-amino acid from Boletus of. 5378
  parasites of man in Papua in. 6225
  problems facing malaria eradication programme in. 6784
**ew Zealand,**
  Agaricales from. 4023, 4029
  Brachydesmiella and Ceratosporella from. 39
  Cheilymenia pallida from. 117
  distribution and ecology of infection pools with Coelomomyces opifexi in. 1318
  fungal plant diseases in. 5928
  importance to of seedborne infection of Helminthosporium maydis. 6966
  incidence and microbiology of otitis externa of dogs and cats in. 6218
  occurrence of Sclerotinia laxa in. 6337
  Parmelia jamesii from. 6471
  studies on glacial moraines and establishment of lichen-growth curves in. 128
  zooplankton and hydrology of Hauraki Gulf. 688
**F-35/NF-44,** control of apple scab, bitter rot and sawfly in Poland with. 2330
**$H_2$-terminal residues,** Neurospora crassa proteins. 1436
**iagara Peninsula,** survey of peach canker in. 6334
**icaragua,** a highly alkaline lake in. 642
**ic$^-$-mutants,**
  of Rhodotorula glutinis, investigations of. 7275
  of Rhodotorula glutinis, investigation on prototrophic revertants of. 7276
**icotiana tabacum,**
  inheritance of resistance to black shank in. 2153
  inheritance of resistance to blue mold in. 5069
**Nicotinamide requirement** of Fusarium vasinfectum. 3573
**Nicotinate phosphoribosyltransferase,** of yeast, purification and properties. 733
**Nicotinic acid,** in Rhodotorula glutinis, 'short cut' pathway for the synthesis of. 7341
**Nicotinic acid pathway,** in Neurospora crassa, end-product regulation of. 197
**Nifuratel,** clinical evaluation of against Trichomoniasis vaginalis. 1703
**Nifursol,** effect of cupric sulphate on the prophylactic efficacy of against histomoniasis in turkeys. 4504
**Niger,** Millet and Sorghum diseases in. 3766
**Nigeran (pseudo),** of Aspergillus niger cell wall, structure of. 7285
**Nigeria,**
  antimicrobial activity of Bacillus isolated from soil of. 3096
  assessment of non-symbiotic nitrogen fixation in soil by acetylene reduction technique in. 3801
  epidemiology of urethritis in Ibadan in. 6220, 6779
  natural occurrence of Aqualinderella fermentans in. 7181
  stem anthracnose of cowpeas in. 2354
  variable agglutinogenic antigens of Trypanosoma gambiense and their distribution among isolates of trypanosome collected in different places in. 6800
**Nigeria (northern),** treatment of Plasmodium falciparum infections in a semi-immune population in. 6280
**Nigerian children,** collaborative clinicopathological study of quartan malarial nephrotic syndrome in. 5035
**Nigericin,** effect on membrane transport in Euglena. 2093
**Nimbu,**
  diseases caused by Colletotrichum gloeosporioides in. 510
  studies on Colletotrichum gloeosporiodes incitant of withertip, leafspot and fruit rot of. 4574
**Niridazole,**
  effect of on experimental Schizotrypanum cruzi infection in mice. 5672
  treatment of amebiasis with. 2911
**Nitra vine region,** microflora of grape-juice in. 3269
**Nitrate,**
  assimilation of by Chlamydomonas reinhardtii. 6166
  comparative growth of Cyanidium caldarium on at different temperatures. 7348
  effect on growth of Ophiobolus graminis. 959

**Nitrate, contd.**
  effect on growth, photosynthesis, and ribulosediphosphate carboxylase content of Dunaliela tertiolecta. 3443
  effect on heterocyst production in Anabaena doliolum. 4696
  eutrophication of Lake 227 in Northwestern Ontario by addition of. 4724
  growth and composition of phytoplankton in shipboard cultures supplied with. 3531
  as limiting factor, nitrogen cycling and primary production in the Vierwaldstattersee and Rotsee in relation to. 1316
  reduction of by Chlorella in the dark. 270
**Nitrate reductase**, from nitrogen-deficient Ankistrodesmus braunii. 721
**Nitrate reduction**,
  by Chlorella, effect of iron supply on. 2811
  by Chlorella, role of molybdenum in. 1430, 1432
**Nitric reductase**, from nitrogen-deficient Ankistrodesmus braunii. 721
**Nitrimidazine**, comparison of with metronidazole in treatment of trichomonal vaginitis. 5025
**Nitrification** and denitrification in activated sludge systems. 7023
**Nitrite**, reduction of by Chlorella in the dark. 270
**Nitrite assimilation**, in green algae, dependence of on energy supplied by respiration and photosynthesis. 2689
5-**Nitro-2-furaldehyde substituted aniles**, antibacterial activity of. 7416
**Nitroaniline (2,6-dichloro-4)**, control of soft rot in cut root pieces of sweet potatoes with. 2991
**Nitrobenzene**, antifungal activity of. 911
**Nitroblue tetrazolium test**,
  in parasitic disease. 366
  use in cases of illness with fever. 4917
**Nitrofuran derivatives**, antibacterial activity of. 7416
**Nitrofurazone**,
  effect on Trypanosoma evansi in rats. 2094
  treatment of trypanosomiasis with. 2910
**Nitrogen**,
  in Anabaena flos-aquae in continuous culture, assimilation of. 1384
  control of assimilation of by cesium and citric acids cycle intermediates. 746
  distribution of during degradation of straw in relation to microbial synthesis of phenols. 3841
  dynamics of organic compounds of as index of biotic cycle of substances in Lake Baikal. 2537
  effect of on alcoholic fermentation of molasses. 2404
  effect on different sources of on production of volatile compounds by Dipodascus aggregatus. 1588
  effect of the form of on the assimilation of carbon in Chlorella vulgaris culture. 6167
  effect on survival of Phialophora radicola and Cochliobolus sativus. 378
  effect of various sources on polysaccharide production by Anabaena flos-aquae. 369
  fixation by Scytonema geitleri. 370
  glycolitic intermediates of Chlorella with differences in nutrition of. 2810
  incidence of brown rust in transplanted wheat as affected by. 5083
  induction of heteroallelic reversions and lethality in Saccharomyces cerevisiae exposed to radiations in. 899
  influence on growth, sporulation, and pathogenicity of Cochliobolus sativus. 3227
  of laver, relationship between chemical constituents in environmental factors. 791
  liberation of by Trichomonas vaginalis during anaerobic culture. 4343
  mineralization of in the soils of Mediterranean ecosystems. 3819
  of Penicillium notatum, origin of in the isonitrile groups of xanthocillin. 2654
  of phytoplankton from low-nutrient subtropical water, physiological state with respect to. 4153
  relation to eutrophication of freshwater lakes. 2539, 3566
  role in elaboration of pullulan by Pullularia pullulans. 816
  turn-over of during preparation of compost and growth of Agaricus bisporus. 3087
  utilization of by Cytospora cincta. 6172
  utilization of different sources of by Alternaria crassa. 4362
  utilization by Penicillium roqueforti of creatinine as source of. 2150
  utilization by Pyricularia oryzae in cultures. 2126
**Nitrogen (ammonium)**, utilization of by fungi. 5564
**Nitrogen (atmospheric)**,
  binding of by Gunnera. 788
  capacity of desert algal crusts to fix. 2385
**Nitrogen (inorganic)**, interaction with light in controlling nitrogen uptake in the sea. 5464
**Nitrogen (liquid)**,
  preservation of genetic strs of fungi under. 1571
  storage of Penicillium chrysogenum conidia in. 5477
  viability of Puccinia graminis f. sp. tritici urediospores stored in. 2726
**Nitrogen (nitric)**, production of blue pigment by Navicula ostrearia maintained in uni-algal culture on synthetic medium deficient in. 4843

**itrogen (organic),** blue-green algal response to. 1586

**itrogen (total),** changes in in mango fruits infected by Diplodia natalensis. 6955

**itrogen (total, soluble, protein, and amino acid),** in Cystoseira stricta, analysis of. 3358

**itrogen amendments,** effect on survival in soil and zoospores of Phytophthora cactorum. 4616

**itrogen assimilation (inorganic),** in yeasts. 2144

**itrogen balance (soil),** effect of inoculation with Tolypothrix tenuis on. 4613

**itrogen:carbon ratio,**
- effect on growth, pycnidia and pycnidiospore formation in Diplodia natalensis and Botryodiplodia theobromae. 3467
- growth responses of Alternaria tenuis to differences in. 5562

**itrogen composition** of barley yeasts of different generations and their physiological activity. 5373

**itrogen compounds,** effects of on resistance of Gossypium arboreum seedlings to Colletotrichum gossypii. 3775

**itrogen content,**
- changes in in the liver of chickens during experimental coccidiosis. 3731
- of lava, effect of trace elements on. 3568
- of rice soil inoculated with Tolypothrix tenuis, changes of. 3799

**itrogen cycling** and primary production in the mesotrophic Vierwaldstattersee and in the eutrophic Rotsee. 1316

**itrogen cycle,** in the sea, plankton as a factor in. 1314

**itrogen-deficiency,**
- in Ankistrodesmus braunii, enzymes in. 721
- influence of on uridine incorporation into Chlorella ribosomes. 5456

**itrogen dynamics** in 3 central Texas impoundments. 6531

**itrogen fixation,**
- in Anabaena, localization of. 1995
- and heterocysts in Anabaena cylindrica. 4128
- in lakes. 5262
- in Lake Erken. 3992
- by mutants of Aspergillus terreus. 6174
- relevant aspects of the physiological chemistry of. 6032
- by unicellular blue-green algae. 2644

**itrogen fixation (algal),**
- in temperate regions. 5364
- in the tropics. 5365

**itrogen fixation (algal and bacterial non-symbiotic)** in paddy soils. 5370

**itrogen fixation (non-symbiotic),** assessment of in Nigerian soils by acetylene reduction technique. 3801

**itrogen fixation (symbiotic),** non-leguminous seed plants in South Africa causing. 5276

**Nitrogen-fixing blue-green algae,**
- collection of cultures of in the Botanical Institute of the Turkmenian SSR Academy of Sciences. 7038
- physiological studies on. 5363

**Nitrogen metabolism,**
- in Agaricus bisporus and Coprinus comatus mycelium, effect of some bioactive compounds on. 5377
- of Arachniotus dankaliensis in submerged culture. 7467
- of Cycloposthium of the caecum of horses. 4148
- in lichens. 4144
- in photomorphogenesis of Aspergillus giganteus. 6645

**Nitrogen mineralization,** in East African soils after drying and moistening. 7003

**Nitrogen mustard,**
- modifying effect on UV irradiation in Aspergillus chevalieri. 321
- segregants from Penicillium chrysogenum heterozygous diploid following treatment with. 981
- treatment of the pleuropulmonary form of mycosis fungoides with. 6269

**Nitrogen mustard (phenethyl),** mutagenic effect in Aspergillus nidulans. 2743

**Nitrogen nutrition,** in Rhizopus nigricans, investigations of. 3571

**Nitrogen source,**
- effect on biosynthesis of litmocidine by Streptomyces litmocidini. 379
- effect on growth and phenolic polymer production by Stachybotrys, Hendersonula toruloidea and Aspergillus sydowi. 4259
- effect on growth and sporulation of Claviceps microcephala. 5559
- effect on metabolic compatability between some Actinomycetes and yeasts. 3461, 5560
- for Phytophthora, value of 21 amino acids as. 958
- phytoplankton growth and composition in shipboard cultures supplied with nitrate, ammonium or urea as. 3531
- utilization of L-leucine as by fungi. 7471

**Nitrogen source (various),**
- content and digestibility of protein in fodder yeast cultivated with. 4363
- growth and sporulation of Botrytis convoluta with. 7445

**Nitrogen storage (liquid),** stability of Chlamydomonas reinhardi in. 2767, 3523

**Nitrogen uptake,** in the culture of Scenedesmus quadricauda. 7461

**Nitrogen waste (acidic low),** microbial process

- **Nitrogen waste (acidic low), contd.**
  - for. 7029
- **Nitrogenase,**
  - of Anabaena cylindrica, physiological electron donor systems to. 1382
  - in Anabaena flos-aquae filaments lacking heterocysts. 150
  - in Anabaena flos-aquae in batch and continuous culture, kinetics of synthesis of. 1385
  - solubilization of during cavitation of aerobically grown Anabena cylindrica. 2578
- **Nitrogenase activity,**
  - in Anabaena flos-aquae growing in continuous culture. 1384
  - of Anabaena cylindrica heterocysts. 7094
  - in aquatic blue-green algae. 3564
  - in broken cell preparations of Gloeocapsa, characteristics of. 6580
  - of the Nostoc phycobiont in Peltigera canina. 4144
  - and photorespiration in Anabaena cylindrica. 3397
- **Nitrogenase synthesis,** in Anabaena. 2476
- **Nitrogenase system** of Anabaena cylindrica, characteristics of. 5319
- **Nitroimidazole, (1-(2-[γ-pyridyl]ethyl-2-methyl)-5-),** laboratory evaluation of. 5680
- **Nitrosamine (dimethyl),** mutagenicity of for Saccharomyces in an in vitro hydroxylation system. 1537
- **Nitrosoguanidine (N-methyl-N'-nitro-N),**
  - effect of on Fusarium moniliforme. 3592
  - induction of cycloheximide-resistant mutants in Saccharomyces cerevisiae with. 4276
- **Nitrothiazoles (antimicrobially active),** structure-activity correlations in the series of. 7403
- **Nitrous acid,**
  - effect on Saccharomyces cerevisiae yeast cells in different phases of evolution. 3484
  - influence of nuclear stage on mosaicism induced in Schizosaccharomyces pombe by. 1540
  - production of mutants of Botrytis allii with. 1542
  - segregants from Penicillium chrysogenum heterozygous diploid following treatment with. 981
- **Nitrous oxide release** from soil fungi. 6999
- **Noctuids,** yeast isolated from and their pathogenicity to Agrotis spp. 6292
- **Nodes (stolon),** of perennially infected Agrostis palustris, sporadic development of Ustilago striiformis in axillary buds from. 1126
- **Nodules,** role of biological factors in the formation of. 4016
- **N-Nonanal,** stimulation of germination of uredospores of stem rust of wheat in the pustule by. 4254
- **Nonsense-missense suppression** in yeast. 2166
- **Nonyl derivatives,** effect on the germination of uredospores. 1523
- **Norsolorinic acid,** in Aspergillus parasiticus, correlation with aflatoxin production. 252
- **North Sea,**
  - changes in the distribution and abundance of zooplankton in. 5301
  - ecological studies on macroinvertebrate populations associated with polluted kelp forests in. 3117
- **Norway,**
  - Chrysochromulina parkeae from. 5220
  - fine structural observations on Chrysochromulina from. 4664
  - identification by electron microscopy of flagellate nanoplankton from. 4674
  - a lichen excursion to Rogaland in. 1337
  - mercury-tolerance in Pyrenophora avenae in. 1146
  - microbiological quality of butter and margarine from. 5788
  - microflora in supralittoral rock-pools in coastal area of. 654
  - phytoplankton and zooplankton of lakes of. 692
- **Norway (North),**
  - gasteromycetes of. 1323
  - soil microorganisms of. 5773
- **Nose,**
  - diffuse, infiltrating leishmaniosis of. 6273
  - mucormycosis of. 1010, 6243
  - obstruction of caused by Rhinosporidium seeberi. 2248
- **Nosematosis,**
  - in carnivores. 1747
  - and toxoplasmosis. 1751
- **Nova Scotian Shelf,** phytoplankton of. 1295, 7148
- **Novobiocin,**
  - effect on growth and development of Actinomyces spheroides. 341
  - Phagolysis of the organism producing. 1157
- **Nuclear behaviour,** in Euplotes woodruffi. 107
- **Nuclear behaviour (macro),** in Stentor, evidence for cortical control of. 3990
- **Nuclear changes,** of Gelidiella acerosa germinating spores. 1268
- **Nuclear condition** and possible life cycle of Peridermium ephedrae. 6503
- **Nuclear cytology** of Sirogonium. 3130
- **Nuclear dependency** of Acetabularia chloroplast proteins. 3343
- **Nuclear development (macro),** in Stylonychia notophora, effect of actidione on. 2748
- **Nuclear distribution** in Metarrhizium anisopliae. 3173
- **Nuclear division,**
  - in free-living soil amoebae, simple method for study of. 5585
  - in the oocyst of Plasmodium berghei. 2509
  - of Physarum polycephalum plasmodia, behaviour of spindle microtubules during. 4701

**uclear division (macro),** of ciliates, and antimitotic agents. 6127, 6689
**uclear division (somatic),**
  in fungi, genetic implications of current models of. 6771
  in Ustilago violacea sporidia. 6507
**uclear envelope (macro),** of Tetrahymena pyriformis GL in different physiological states. 5317
**uclear event,** electron microscopy of during binary fission in Paramecium multimicronucleatum. 3988
**uclear growth,** acceleration of in UV-irradiated plasmodia of Physarum polycephalum. 7382
**uclear magnetic resonance spectrum,** structure of sesquiterpene dialdehyde from Lactarius by. 3419
**uclear magnetic resonance spectrum (natural-abundance carbon-13 Fourier-transform),** of unfractionated yeast tRNA. 5950
**uclear migration,** in Schizophyllum, suppression of mutation disruptive to by gene linked to B incompatibility factor. 3590
**uclear mitochondrial interactions,** hypothesis of for control of mitochondrial biogenesis based on experiments with Tetrahymena pyriformis. 1502
**uclear pore complex,**
  actinomycin D in the central granules in. 4353
  of Tetrahymena pyriformis macronuclear envelope, structure and functional aspects of. 6481
**uclear reorganization,** of Paramecium caudatum, comparative analysis of. 2185
**uclear segregation,** in Hansenula wingei, during ascosporogenesis. 623
**uclear separation (somatic),** in Neurospora crassa, electron microscopy of nuclear membranes during. 4703
**uclear stage,** in Schizosaccharomyces pombe, influence on mosaicism induced by nitrous acid. 1540
**uclear systems (extra),** role of in cell wall organization in Chlamydomonas reinhardtii. 4941
**uclear transplantation,** in amoebae, incompatibility phenomena under. 403
**uclease** from Acrocylindrium, purification and properties of. 7239
**uclease (exo),** of Neurospora crassa, specificity of for single-stranded nucleic acids. 3319
**uclease genes,** in Neurospora crassa, properties of. 6190
**uclease O,** of Aspergillus oryzae, mode of action of, on DNA. 6006
**uclease O (crystalline),** in autolyzed Aspergillus oryzae, mode of action and base specificity of. 750
**Nucleic acid,**
  of blue-green algae, homology between. 4372
  of Candida, reduction of by bovine pancreatic RNase A treatment. 714
  of Candida utilis, characterization and heat-shock process for reduction of. 713
  of erythrocyte-free malarial parasites, inhibited incorporation of AMP-8-$^3$H into by acridines, phenanthridines and 8-aminoquinolines. 4863
  of Euglena gracilis, $^{32}$P-labelling of and role of phosphate in. 701
  in intestine of Apis mellifica infected with Nosema apis and treated with fumagillin DCH. 3735
  from microfungi, isolation of by treatment with thioglycolic acid. 1372
  of Plasmodium berghei, in vitro incorporation of purine derivatives into. 145
  in synchronized Chlorella cells, effect of neomycin on. 3495
  of Verticillium agaricinum, effect of light on. 1528
  of Verticillium dahliae, effect of antifungal antibiotic 18-80 on. 6702
**Nucleic acid (single-stranded),** exonuclease of Neurospora crassa specific for. 3319
**Nucleic acid composition,** of Anacystis, transformation of during continuous culture. 4065
**Nucleic acid metabolism,** in Penicillium expansum, effect of γ-irradiation on. 2091
**Nucleic acid precursors,** assimilation by intact cells and protoplasts of Anacystis nidulans. 698
**Nucleic acid synthesis** during the vegetative life cycle of Volvox aureus M5. 5943
**Nucleic acid synthesis inhibitors,** effect on fertilization in Volvox carteri. 2742, 3445
**Nucleic bases,** in Penicillium cyclopium, identification of trace amounts of. 942
**Nucleolar material,** extrusion of during interphase. 3979
**Nucleolar structure,** dependence of on DNA and RNA synthesis. 7203
**Nucleoplasma,** of Microcystis aeruginosa, electron-microscopic studies of. 1
**Nucleosidase (uridine),** from bakers yeast, partial purification and properties of. 1399
**Nucleosides,**
  allosteric inhibition of baker's yeast cytosine deaminase by. 2607
  in Penicillium cyclopium, identification of trace amounts of. 942
**Nucleotide,**
  allosteric inhibition of baker's yeast cytosine deaminase by. 2607
  excision of from the dihydrouridine loop of yeast phenylalanine tRNA. 3298
  metabolism during differentiation in

**Nucleotide, contd.**
    Dictyostelium discoideum. 138
  in $tRNA^{Arg}_{III}$ from Brewer's yeast, sequences of. 7206
  of Schizosaccharomyces pombe, changes of during the cell cycle. 2003
**Nucleotide (acid-soluble deoxy)**, in growing yeast after X-irradiation. 3464
**Nucleotide (polyribo)**, immunologic-mediated protection of Trypanosoma congolense infected mice by. 3612
**Nucleotide (purine)**,
  macromolecular inhibitor of yeast RNase mediated through. 6103
  in yeast cells, action of exogenous purines on biosynthesis and transformations of. 1370
**Nucleotide (pyridine)**, in Saccharomyces cerevisiae, regulatory function of L-kynurenine 3-hydroxylase for the biosynthesis of. 1983
**Nucleotide biosynthesis**, regulation of. 5953
**Nucleotide composition**,
  of DNA of coccal microorganisms isolated from lithophylic lichens. 7190
  and 6-methylaminopurine content in DNA of zygomycetes. 6568
**Nucleotide inhibition** of UDP glucose 4-epimerase from Saccharomyces fragilis and goat liver. 2722
**Nucleotide sequence**,
  of alanine tRNA from Torulopsis utilis. 7209
  in 14 dinucleotides modified by 2'-O-methylation from yeast RNA determined by periodate degradation and by pentose analysis. 5313
  of lysine tRNA from bakers' yeast. 4757
  of 'renaturable' leucine tRNA. 715
  of two tryptophan-tRNAs from brewers yeast. 708
**Nucleotide sequence homology (DNA)**, relatedness between major taxonomic groups of fungi based on the measurement of. 4067
**Nucleotide sequence redundancy (DNA)**, in Tetrahymena pyriformis, physiological control of. 3304
**Nucleus**,
  of amoeba, mass isolation of. 1426
  of Chlamydomonas reinhardtii, transcriptional mapping of rRNA genes of. 3580
  of Colpidium campylum, cytophotometric and autoradiographic studies of throughout the cell cycle. 1902
  of Dunaliella salina, cytophotometric investigation of DNA content of. 2566
  of Fusarium culmorum, behaviour of during conidium germination. 3977
  in Metarrhizium anisopleae, distribution of. 41
  of Paramecium caudatum, DNA content in macronuclei of 4 clones with different morphological types of. 6577
  of Physarum polycephalum, evolution of DNA content of during sporulation. 139
  of Rhizoctonia solani, distribution of. 4687
  of Saccharomyces cerevisiae, synaptic structures in. 5837
  of Sirogonium, cytology of. 2437
  in Spirochona gemmipara, structure of at the point of budding. 3234
  of Synchytrium mercurialis, ultrastructure of during encystment. 576
  of yeast, electron microscopic autoradiographic study of RNA synthesis in. 4068
  of yeast, precursors of rRNA in. 3297
  from yeast protoplast, structure of. 26
**Nucleus (brown algal)**, ultrastructural studies of. 5820
**Nucleus (epidermal)**, of onion, interference microscopy of in response to fungal pathogens. 2350
**Nucleus (fungal)**, ultrastructure of kinetochore equivalent of. 583
**Nucleus (interphase)**, of Amoeba proteus, localization and characterization of chromati within. 3183
**Nucleus (isolated)**,
  of Physarum polycephalum, specific activity of NAD pyrophosphorylase in during cell cycle. 1974
  of yeast, characteristics of DNA-dependent RNA polymerase activity from. 2602
**Nucleus (macro)**,
  of ciliate, genome amplification and gene expression in. 6774
  in Stylonychia, evidence of gene diminution during formation of. 4396
**Nucleus (macro and micro)**, from Paramecium aurelia, isolation and partial characterization of. 4084
**Nucleus (mesocaryotic and eucaryotic)**, a dinoflagellate with. 1842
**Nucleus (micro)**,
  in Ciliophora, polyploidy of as characteristic of the sp. 4952
  defective in selected C subclones of Tetrahymena. 406
  in Paramecium caudatum, a cytofluorimetric study of DNA content in polymorphic types of. 147
  of Paramecium caudatum, polymorphism of. 2185
**Nucleus (mitotic)**, in Acanthamoeba comandoni and A. astronyxis, taxonomic characteristics of. 53
**Nucleus (multiple macro)**, behaviour of during cell cycle of Hemicliostyla sphagni. 7137
**Nucleus independent steps** in control of repair of mitochondrial damage, in Saccharomyces cerevisiae, evidence for. 3483
**Nucleus/nucleolus**, from Physarum polycephalum at different times during the cell cycle,

**ucleus/nucleolus, contd.**
  effect of $\alpha$-amanitin and $(NH_4)_2SO_4$ on RNA synthesis in. 7362
**ut**, microorganisms in. 4639
**utrient amendments (micro)**, effect of on Verticillium and Fusarium wilt of tomato. 5130
**utrient composition** of a freshwater lake ecosystem. 4007
**utrient distribution**, effect on mycelial strand induction in Serpula lacrimans. 2814
**utrient elements (limiting)**, in filtered Lake Erie waters. 4354
**utrient enrichment** and salt flat fauna. 7019
**utrient leakage** in the biological control of dried sclerotia of Sclerotium rolfsii. 5148
**utrient limitation**. 6743
**utrient medium**, absorption of mineral substances from by Chlorella cells with respect to age. 4355
**utrient parameters** in water, initial studies on method of algal assay for. 4903
**utrient regeneration** from dead freshwater plankton. 3570
**utrient status** and mycorrhizal enhancement of water transport in soybean. 6377
**utrients,**
  in the Bay of Quinte, Lake Ontario. 1820
  capacity of coastal waters of Sweden to use. 3257
  effect on germination and longevity of Chaetomium thermophile var. coprophile ascospores. 2061, 2718
  in Lake Michigan, significance to eutrophication of spatial differences in. 6520
  in Peruvian coastal waters. 3241
  in shallow unstratified estuarine system, phytoplankton production and distribution of. 2534
**utrients (extra)**, increase in growth of permanent tissue culture cell line cultivated in lactalbumin-yeast medium by addition of. 3550
**utrients (mineral)**, course of consumption of in the culture of Scenedesmus quadricauda. 7461
**trients (organic)**, growth of moulds on media prepared without. 2791
**trients (wastewater)**, algal-bacterial symbiosis for removal and conservation of. 2418
**trition,**
  of Caribbean marine algae. 3821
  of Chytriomyces, influence on morphology. 2812
  of Gonatobotryum fuscum. 6731
  of grape vines, endotrophic mycorrhiza and. 2401
  of Grinnellia americana in culture. 956
  influence of on thermo-resistance of Physarum polycephalum. 5466
  of Kentrophoros fistulosum, epizoic bacteria and mode of. 4367
  of marine phycomycetes. 1509
  of a methionine-requiring Paracoccidioides brasiliensis. 5566
  of Microcionia prolifera with yeast-like fungi. 1180
  of Phytophthora, observations on. 6746
  of Pilaira anomala. 3849
  technical errors in in the feeding of animals. 7010
  of Salpingoeca pelagica. 3923
  in Streptocephalus dichotomus. 1177
  of Trypanosoma. 2818
  of yeast. 4366
**Nutrition (exogenous)**, influence of on virulence of Rhizoctonia solani. 4364
**Nutrition (mineral),**
  effects of on the height of the polarographic protein double wave of Scenedesmus quadricauda. 5555
    of planktonic algae. 7459
  study of White Sea phytoplankton mass forms requirements for elements of by planned additions. 6165
**Nutritional deficiency** and denture sore mouth. 7528
**Nutritional factors**, effect on DDT-degradation by Mucor alternans. 957
**Nutritional physiology** in termites, studies on after selective elimination of gut symbionts with drugs. 6704
**Nutritional shift-up** in Tetrahymena pyriformis, preferential replication of the rRNA genes during. 6773
**Nutritional study,**
  with axenic cultures of Melampsora lini. 4936
  of Cyathus helenae. 6171
  of Cytospora cincta utilization of carbon and nitrogen sources. 6172
**Nutritional value,**
  and utilization of algae for zooplankton. 6396
  of yeasts and petrochemical raw materials. 1812
**Nuttalliosis** of white mice, dynamics of. 2961
**Nycteribiidae**, chiropteran hosts of and hyperparasitic Laboulbeniales. 3692
**Nycticebus coucang,**
  Eimeria pachylepyron from in Malaysia. 4316
  trypanosome of. 6307
**Nystatin,**
  biochemical effects of on Candida albicans. 4890
  effect of on the formation of peptidase A in Penicillium janthinellum. 6136
  effect on growth of auxotrophic and prototrophic Aspergillus nidulans. 333
  kinetics of action on yeast. 329

**Nystatin, contd.**
  - problems in the treatment of pulmonary candidiasis with. 1021
  - securing SPF-mice by decontamination with. 917

**Nystatin-oxytetracycline** in the prevention of candidal vaginitis. 4450

**Nystatin resistance** in yeast, isolation of genetic and cytoplasmic mutants from a sensitive str lacking resistance modifiers. 6204

**Nystatin topical cream**, efficacy of in management of cutaneous candidiasis in infants. 5617

# O

**Oak,**
  - cankers on in Texas. 6949
  - correlation of isolability of wilt pathogen of with leaf wilt and vascular water flow resistance in. 1102
  - in North Carolina and Maine, differences in decay rate following fire between. 7702
  - numerical index for rating trees infected by Ceratocystis fagacerarum. 1103
  - zonation of corticolous lichens on. 671

**Oak (red and white)**, successions of microorganisms and patterns of discolouration and decay after wounding in. 4611

**Oak-hornbeam forest**, Amphora montana in. 1294

**Oak mildews.** 6925

**Oak wilt trees,**
  - influence of herbicides on mat production and bark beetle attack in. 6904
  - in Missouri, oak bark beetle attacks on. 6903

**Oat,**
  - in Canada, crown rust of. 7639
  - effect of plantvax emulsifiable concentrate on stem and crown rusts of. 5733
  - effect of sowing date on resistance to Erysiphe graminis. 501
  - losses from diseases of in Manitoba and Saskatchewan in 1970. 3075
  - modification of tolerance of to crown rust by mutation induced by ethyl methanesulfonate. 1121
  - process of root infection of by Ophiobolus graminis. 7634
  - result of seed treatment of in South Carolina. 3016
  - stem rust of in Canada. 6934

**Oat (red rustproof)**, horizontal resistance of to crown rust. 7640

**Oat crown rust**, pathogenicity of isolates of in USA. 3004

**Oat cultivars (contemporary)**, tolerance of to currently prevalent races of crown rust. 3003

**Oat seed** treated with organomercury, epiflora of. 4033

**Oat stem rust** in the USA during 1970. 2339

**Obergurgl**, soil living Testacea in. 4630

**Oblonga clonal olive rootstock** resistant to Verticillium wilt. 1150

**Ocean,**
  - ecology and geography of microorganisms from 651
  - limits of microbial productivity in. 6398

**Ocean (tropical)**, oscillatory variation of phytoplankton populations in. 4712

**Oceania**, mycoses of. 2194

**Oceanography (biological)**, efficiency comparison of some filters used in. 3524

**Ochotona**, Eimeria from. 3937

**Ochotona princeps**, structure of the oocyst and excystation process of Isospora marquardti from. 5900

**Ochratoxin,**
  - of Aspergillus ochraceus, 4-hydroxymellein as possible biosynthetic precursor of. 2030
  - from Aspergillus, production of. 6639
  - from Penicillium viridicatum, isolation and structure of. 847
  - sensitivity of chicks to. 1058

**Ochratoxin A,**
  - from Aspergillus ochraceus, medium-scale production and purification of. 4182
  - bioproduction of by Aspergillus ochraceus group. 6637
  - from Penicillium viridicatum, simplified procedure for the purification of. 2125
  - relationship of foetal death in laboratory and domestic animals. 2408
  - toxicity and excretion of in rats intubated with pure toxin or fed cultures of Penicillium viridicatum. 2282

**Ochratoxin A and B**, comparative rates of hydrolysis of in vitro. 6635

**Ochratoxin synthesis** by Penicillium. 7318

**Ochratoxin toxicity** in hens, study of. 4496

**Ocotillo**, Colletogloeum fouquieriae on. 7076

**Odor production**, of Basidiobolus, studies on. 666

**Odorous constituents**, produced by Phellinus, analysis of. 5438

**Oedema (interstitial pulmonary)**, in acute malaria. 2927

**Oedema (Quincke's)** and Urticaria due to moulds in the atmosphere. 4404

**Oesophagitis (constrictive)**, Candida albicans as cause of in acute childhood leukaemia. 6252

**Oesophagus,**
  - oesophageal candidiasis and carcinoma of. 102

**esophagus, contd.**
  moniliasis of. 2191
**estradiol (17 α-methyl),** hydroxylation of at the 4 and 5 position by Aspergillus flavus. 3375
**estrogen-sulphates,** microbial synthesis of. 3423
**estrogenic activity** of Fusarium graminearum on rats in experimental conditions. 4499
**idia,** of Coprinus lagopus, ultrastructure of. 30, 3220
**il (essential),**
  efficacy of on pathogenic fungi. 6701
  in Microcystis aeruginosa, component composition of. 4805
**il (volatile),** from plants, antimicrobial effects of on Saccharomyces cerevisiae. 4290
**il collector (watered),** formation of hydrogen sulphide in. 5765
**il dispersed in water,** kinetics of growth on. 5536
**il-field,** in Yugoslavia, microflora in. 2547
**il fruit,** infestation of during importation to Poland. 3115
**il fuel,** effect of compounds containing amino group on microbial growth in medium with. 3472
**il palm,** properties of Fusarium oxysporum f. sp. elaeidis pectinases causing wilt disease in. 1420
**il palm diseases,** survey of in Indonesia. 1777
**il pollutants,** microbial degradation of. 5803
**il seed,** action of fungicides on fungi occurring on. 6366
**kra,**
  seed-borne fungi of and their control with fungicide. 4585
  in the Sudan, chemical control of powdery mildew of. 6924
**ld age,** pneumonia in. 5618
**lea europaea,** relation of Verticillium albo-atrum to severity of wilt in. 2381
**leanolic acid,**
  as growth factor for wine yeast in anaerobiosis. 3463
  microbial transformation by Penicillium chrysogenum. 828
**leic acid,** combined effect of with X-rays on yeasts. 3503
**ligomycin-sensitivity,** correlation with ergosterol in a purified mitochondrial ATPase from Saccharomyces cerevisiae. 5992
**ligopeptides,** specificity of various neutral proteinases from microorganisms with. 777
**ligosaccharides,**
  of brewer's yeast, studies on enzymatic synthesis of. 2010
  in Cladophorales, characterisation of. 2658
  utilization by fruit-rot fungi. 1598
**ligosaccharides (hydroxyproline hetero),** in Chlamydomonas. 5385
**Olive,**
  fermenting yeasts associated with softening and gas-pocket formation in. 4643
  relation of Verticillium albo-atrum to severity of wilt in. 2381
  T-1 Verticillium causing wilt in. 4600
**Olive (ripe black)** in brine, physical, chemical and microbiological study of fermentation in. 4649
**Olive rootstock,** resistant to Verticillium wilt. 1150
**Onchoceriasis,** work of the World Health Organisation in. 2848
**Onion,**
  diseases of in organic soils of Quebec in relation to climate. 519
  effect of antibiotics on Sclerotium cepivorum causing white rot of. 1552
  effect of inoculum density of Sclerotium cepivorum and some soil environmental factors on disease severity in. 3060
  infected with Fusarium. 3049
  infected by Fusarium oxysporum f. sp. cepae, pathological histology of. 3044
  prevalence of smut in in Quebec. 506
  resistance of to leaf blight. 1774
**Onion epidermal nuclei,** interference microscopy of in response to fungal pathogens. 2350
**Onion pink root fungus,** as a naturally occurring component of the soil in Oregon. 5123
**Onion (selected),** infection by Fusarium oxysporum f. sp. cepae in. 2361
**Ontogeny,**
  in Candida tropicalis, study of kinetics of protein fractions during. 1443
  of Penicillium conidia. 591
  of Scenedesmus quadricauda, discontinuity in the growth of zoenobial cells during. 5866
  of Scenedesmus quadricauda, morphological changes during. 5233
**Ontogeny (conidium),** in Coelomycetes. 1924
**Onychomycosis,**
  caused by dermatophytes in Bucharest, review of. 2844
  caused by Dermatophytes in Romania, review of. 1693
  griseofulvin therapy for patients with. 3654
  laboratory mill for pulverizing and homogenizing nail specimens as an aid to microscopy and culture confirmation of. 5541
**Onyxis (dermatophytic),** in a closed community of the Northern alps. 2845
**Oocyst,**
  of coccidia, fine structure of. 605
  of coccidia in lamb's faeces, variation of the number of. 5059
  of coccidia, rapid method for staining of. 5551

**Oocyst, contd.**
  of Eimeria, comparative measurements of respiration in. 639
  from Eimeria, description of. 58
  of Eimeria, observations of production of in the chorioallantois chick embryos incubated at different temperatures. 5485
  of Eimeria separata, increase in size of during pregnancy. 2295
  of Eimeria tenella, increasing yield of in cell culture. 953
  of Isospora, culture of toxoplasmas from in chicken embryo. 1746
  of Isospora, elimination and infectivity of. 1749
  of Isopora marquardti from Colorado pika, structure of. 5900
  of Plasmodium berghei, nuclear division in. 2509
  of Plasmodium gallinaceum, drug-induced ultrastructural changes in. 2107
  of Plasmodium gallinaceum, trimethoprim effect on. 2970
  of rabbit coccidia, survival of under conditions of the south Ukraine. 5153
  of Toxoplasma and Isospora, detection of. 7090
**Oocyst segmentation**, of Eimeria tenella, and endogenous respiration during sporogenesis. 5256
**Oocyst shell**, in Eimeria necatrix, elaboration of. 2507
**Oocytes (amphibian)** the central granules in the nuclear pore complex of after Actinomycin D treatment. 4353
**Oogonia**, of Achlya flagellata, differentiation from androgyny to dicliny in. 15
**Oogonia (spiny)**, Pythium with. 1853, 3148
**Oogonium evacuation**, in Dictyota, spectral sensitivity distribution of light induction of. 1507
**Ookinete**, of Parahaemoproteus velans, fine structure of. 6480
**Oosponol**, dopamine β-hydroxylase inhibitor produced by Gloeophyllum striatum and its identity with. 7304
**Oospore**,
  of Chara delicatula, light reactions in the control of germination of. 878
  of Phytophthora cactorum, sterols and the production of. 7466
  of Phytophthora megasperma var. sojae, germination of. 1914, 3213
  of Pythium aphanidermatum, effect of time, temperature and pH on germination of. 619
  in Sclerospora graminicola, germination of. 5886
**Ooze deposit**, destruction of organic substances in. 5764
**Open cell preparation**, of greening Chlamydomonas reinhardtii, development of photophosphorylation and proton pump activities in. 4834
**Ophthalmoplegia (intranuclear and supranuclear)** central nervous system cryptococcosis causing. 4454
**Opifex fuscus**, distribution of Coelomomyces opifexi in in New Zealand. 1318
**Opossum**,
  experimental bacteria and fungal endocarditis in. 2278
  transmission of Trypanosoma cruzi infection t via the oral route. 4510
**Opportunist candida infections**. 3597
**Opportunist fungi**,
  in invasive amoebiasis. 3668
  study of. 2548
**Opportunist organisms**, conditions for the development of. 6271
**Optical brighteners**, petite mutants induced in yeast by. 1536
**Optical density**, as aid to the study of microstratified phytoplankton populations in lakes. 924
**Optical diffraction studies**, of isolated cell walls from Chlamydomonas. 6
**Optical rotatory dispersion**, studies of toxicity an conformation of phallotoxins. 251
**Oral antifungal compound**, 5-fluorocytosine as. 6823
**Oral apparatus**, of Tetrahymena pyriformis synthesis of proteins of. 637
**Oral cavity** of the chimpanzee, Geotrichum and yeasts of. 6866
**Oral leukoplakia**, review. 1025
**Oral morphogenesis (microtubule-based)**, in Stentor coeruleus, inhibition of. 4270
**Oral route**, sporozoite-induced Plasmodium berghei infections administered by. 1085
**Orange (Shamouti)**, effect of various storage atmospheres on the occurrence of rot and blemishes on. 6409
**Orange (sweet)**, free amino acid content of greening-affected and healthy plants of. 457
**Orange decay**, protective effect of benzimidazoles applied preharvest for post-harvest control of. 2371
**Orange seedlings**, importance of Phytophthora and aeration in root rot and growth inhibition of. 2985
**Orbito mucormycosis**, case of. 1010
**Orchid**, light and electron microscopy of endotrophic mycorrhiza of. 6385
**Orchid mycorrhiza**, fine structure of the host-fungus interface in. 1247
**Orchidaceae**, phylogeny and ecology of. 2400
**Orchitis (Trypanosoma)**, in rabbits, effect of magnetic fields associated with electromagnetic waves on. 5676

**rgan weight**, changes of in avian coccidiosis. 2957

**rganelle**,
  similarity between tRNAs of and prokaryotes. 2567
  of Tintinnide, disclosure by electron microscopy of new type of. 3194

**rganelle (large feeding)**, microtubule-arms and propulsion of food particles inside in Phascolodon vorticella. 5863

**rganic acid**, in Cylindrotheca fusiformis, transport systems for. 6648

**rganic acid production** by sourdough bacteria, factors affecting. 7008

**rganic components** of lake Baikal. 3237

**rganic excretion** by Dunaliella tertiolecta. 4797

**rganic matter**,
  in ooze deposits, destruction of. 5764
  permeability of Nitella internodal cell to. 4204

**rganic matter (dissolved)**, production of from dead green algal cells. 7151, 7152

**rganic matter (suspended)**, in fast-flowing streams in Scotland. 1301

**rganomercurials**, efficacy of in controlling collar rot of groundnut. 6354

**rganomercury fungicide**, effect on saprophytic fungi and litter decomposition. 907

**rganomercury-liquid**, use of for seed treatments. 3071

**rganophosphorus fungicide**, mode of action of. 7412

**rganophosphorus insecticides**, modification of development of Beauveria tenella mycosis in Melolontha melolontha larvae by. 3696

**rganosilicone compounds**, conditions for the cultivation of microorganisms in the presence of. 6673

**rganotin compounds**, use of against cacao black pod induced by Phytophthora palmivora. 2318

**rganotin/organolead**, effectiveness of against decay and soft rot fungi of wood. 1190

**rissa (South)**, thermal Cyanophyceae from. 6517

**rnamentals** in South Australia, Phytophthora cinnamomi on. 7619

**rnithine**, Saccharomyces cerevisiae, regulatory site of. 168

**rnithine carbamoyltransferase**, in Saccharomyces cerevisiae, interaction with arginase. 168

**rotate**, incorporation into chloroplast rRNA of Chlorella. 2565

**rotidine-5'-phosphate pyrophosphorylase/ orotidine-5-phosphate decarboxylase**, from bakers yeast, purification and properties of. 771

**rsellinate decarboxylase**, from Lasallia pustulata, purification and properties of. 782

**rsellinate depside hydrolase**, from Lasallia pustulata, purification and properties of. 186

**Orthophosphate**, regulation of yeast acid phosphatase by. 7227

**Oryctolagus cuniculus**, Coccidiosis in. 685

**Oryza sativa**,
  effect of chemical fertilisers on the rhizosphere mycoflora of. 3095
  microflora on root regions of. 4620

**Oryzaephilus surinamensis**, Mattesia oryzaephili as a neogregarine parasitizing. 7604

**Oryzomys palustris**, Eimeria palustris and Isospora hammondi from. 3934

**Oscillation**, in the level of ATP in Chlorella fusca, transient induction of. 4845

**Oscillation (persisting circadian)**, in enzyme activity in non-dividing cultures of Euglena. 5963

**Oscillatory variation** of a phytoplankton population in a tropical ocean. 4712

**Oshoro marine biological station**, Hokkaido University, Japan, history and description of. 4018

**Osmophilic fungi** in feed stuffs, culture medium for counting. 3543

**Osmophilic fungus (facultative)**, Dibotryon morbosum as. 4914

**Osmosis**,
  and fungal mycelia. 552
  regulation of photosynthesis glycerol production in Dunaliella. 273

**Osmosis (cold shock)**, in Saccharomyces cerevisiae. 304

**Osmotic growth requirement** of Crithidia, temperature-enhancement of. 6109

**Osmotic pressure**,
  as limiting factor for growth fermentation of yeasts. 1278
  sporulation in the Aspergillus glaucus group in response to. 1283

**Osmotic properties** of mitochondria of wild-type and respiration-deficient yeast. 5998

**Osmotic shock**, in Aspergillus nidulans, effect on hyphal wall synthesis. 94

**Osmotic water flow** in Nitella, barrier components acting against. 7718

**Osmotolerance** in yeasts, causes of. 4660

**Ossification (para-articular)**, as complication of African trypanosomiasis. 1707

**Osteomyelitis** in heroin addicts. 2239

**Osteomyelitis (candidal)**, and arthritis in a neonate. 6819

**Otitis externa** of dogs and cats in New Zealand, incidence and microbiology of. 6218

**Otitis media**, Wegener's granulomatosis appearing initially as. 5001

**Otomys irroratus**,
  Eimeria from. 2294
  transmission of Eimeria chinchillae to. 479

**Otolaryngologic** aspects of mycosis fungoides. 2903

**Otway basin**, late paleocene in. 3290

**Ouabain**, inhibition of reproduction in Trypanosoma lewisi by. 5483

**Ova (helminth)**, formol-cupric chloride method for the examination of. 4930

**Overhead boom sprayer**, for control of coffee berry disease. 5137

**Overwintering,**
- and early season development of Helminthosporium maydis in Mississippi. 2394
- of Helminthosporium maydis in Alabama. 2391
- of Helminthosporium maydis in Florida. 2392
- of Helminthosporium maydis in Georgia. 2393
- of Helminthosporium maydis in North Carolina. 2395

**Overwintering propagules**, existence of chlamydospores of Alternaria porri as. 3088

**Ovis aries**, Eimeria marsica parasite of. 3728

1,2,$[^{14}C]$**Oxalate**, utilization of by Agaricus bisporus mycelium and fruiting bodies. 5437

1,4-**Oxathiin**, effect on succinate oxidation by a particulate preparation from Ustilago maydis. 332

**Oxathiin derivatives,**
- action of on physiology of sensitive and non-sensitive yeast. 4305
- problems in the development of. 5133

**Oxathiin systemic fungicides**, mode of action of. 2105, 5505

**Oxidase (cytochrome),**
- association of with lipids from yeast mitochondria. 4811
- in Polytomella caeca, localization of. 3308

**Oxidase (glucose)**, from Aspergillus niger, interaction with halide ions. 2622

**Oxidase (L-amino acid),**
- from Neurospora, purification and properties of. 4769
- from Neurospora, repression of with biotin. 2721
- from Neurospora crassa, kinetic studies on reaction mechanism of. 3318

**Oxidase (phenol),**
- of blue-stain fungi, activity of. 2626
- of Podospora anserina. 2599, 2600, 2601

**Oxidase (polyphenol)**, changes in potato tuber after wounding and infection with Phytophthora infestans. 496

**Oxidase (sarcosine)**, in Penicillium roqueforti, induced biosynthesis of. 5354

**Oxidase (terminal)**, of Chlorella pyrenoidosa. 5962

**Oxidase activity**, in Chlamydomonas reinhardi, ultrastructural localisation of. 2582

**Oxidase activity (cytochrome)**, in cell-free preparations from blue-green algae. 4085

**Oxidation,**
- of alkanes in Candida tropicalis, participation of cytochrome $P_{450}$ in. 824
- control in Candida utilis culture. 355
- of elemental sulphur to thiosulphate by Streptomyces. 291
- of manganous salts of manganese by soil fungi. 6655
- of n-paraffin by yeast cells, localization of. 1468

**Oxidation (ascorbate)**, by a photochemically photoactive chromoprotein from Anabaena cylindrica. 2688

**Oxidation (co-)**, of hydrocarbon in microbial systems. 293

**Oxidation (photo),**
- of 3,3'-diaminobenzidine by blue green algae and Chlamydomonas reinhardtii. 4844
- of glucoamylase I from Aspergillus niger. 1409

**Oxidation reduction (terminal)**, of yeast phenylalanine tRNA, inactivation of $T_u$ factor GTP recognition and ribosome binding ability by. 4755

**Oxidation-reduction potentials,**
- of iron-sulphur centres in the respiratory chain of Candida utilis submitochondrial particles. 3428
- of Rhizopus G-36 studies on. 4838, 4839

**Oxidative inactivation** of invertase and polygalacturonase of Cercospora beticola. 4785

**Oxidative metabolism** in Polystictus versicolor. 3421

**Oxide media (deuterium)**, protonated amino acid precursor studies on rhodotorulic acid biosynthesis in. 6040

**Ox-neck muscle mitochondria**, fuscin as inhibitor of respiration and oxidative phosphorylation in. 6066

1,2-α-**Oxotetramethylene ferrocene**, microbial hydroxylation of. 287

5-**Oxothiazolidine-2-thione derivatives**, antimicrobial activity of. 7418

**Oxothiin derivatives**, genetic evidence for the action of on the succinic dehydrogenase system of Ustilago maydis mitochondria. 6131

**Oxycarboxin,**
- control of common and dwarf bunt of wheat with. 3013
- use of for seed treatments. 3071

**Oxygen,**
- in biochemical systems, sensitive bacterial luminescence probe for. 6156
- effect on cellulolytic activity of fungi. 302
- effects of chloramphenicol isomers and erythromycin on enzyme and lipid synthesis induced by in wild-type and petite yeast. 5502

**xygen, contd.**
  effect of on promitochondrial protein synthesis. 4248
  genetic control of sensitization by involving repair systems in Saccharomyces. 5577
  liberation of by Trichomonas vaginalis during anaerobic culture. 4343
  light-induced fluorescence changes in Chlorella and the primary photoreactions for the production of. 6083
  pattern of phase resetting in oscillatory glycolysis in yeast by. 5449
  requirement in secondary metabolism in Trichoderma viride. 264
**xygen (high purity)**, in biological treatment of municipal wastewater. 7027
**xygen-consumption**, in larvae of Laspeyresia pomonella infected by Beauveria bassiana. 1060
**xygen deficiency**, chlorophyll fluorescence induction in Scenedesmus at. 4198
**xygen depletion (winter)**, dependence of primary production on in a small senescing lake. 4009
**xygen equilibrium**, of yeast haemoglobin. 1498
**xygen evolution**,
  in Chlorella pyrenoidosa, changes in induced by long preillumination at 650 nm. 3439
  variation in during Chlorella photosynthesis. 4195
**xygen-reducing system** of Anabaena variabilis, studies on. 3398
**xygen tension**, effect on the physiology of Saccharomyces cerevisiae in continuous culture. 2066
**xygen transfer** within a mold pellet. 3432
**xygen transport**, in conifer seedlings, relationship to formation of the ectotrophic mycorrhizal sheath. 4618
**xygen uptake (dark and after-light)**, adaptation to by obligate phototrophic blue-green algae. 1484
**xygen usage**, by Candida utilis, observations on during cell cycle. 3545
**xygenases**, in Neurospora crassa, involvement in thymine and thymidine metabolism. 3320
**xygenation (microbial)**, of $\Delta^4$-Bufatrienolides, structure elucidation of the products of. 2044
**xyquinolines**, complication of self medication in giardiasis with. 451
**xytetracycline**,
  as coccidiostat. 1742
  efficacy in treatment of nongonococcal urethritis. 434
  influence on orally administered Candida albicans in germ free and conventional mice. 1726
  treatment of amebiasis with. 2911
  in the treatment of pulmonary mycoses. 2241
  in vitro activity on isolated strs of Entamoeba histolytica. 343
**Oxytetracycline-nystatin** in the prevention of candidal vaginitis. 4450
**Oyster**, fungal disease of shell of. 1067
**Oyster (Sydney rock)**, occurrence of haplosporidan in. 7601
**Oyster area (estuarine pearl)**, decomposition effluent and deposition of phytoplankton in. 1196
Oyster Bay, Jamaica, studies at. 4011
**Oyster parasitism** by Labyrinthomyxa marina in Florida. 2274
**Oyster pond**, Phaeodactylum tricornutum from. 644
**Ozone-injury**, susceptibility of Pinus strobus needles to invasion by Lophodermium pinastri and Aureobasidium pullulans after. 6913

# P

**Paap batch test**, evaluation of. 6714
**PABA**, effect of on chloroquine resistance in Plasmodium berghei yoelii. 6314
**Pachytene karyotype**, of Neurospora crassa, reconstruction of. 3174
**Pacific (central)**,
  observations on the hydrology and plankton of the approaches and channel zone of Rangiroa Atoll in. 4725
  some occurrences of phytoplankton between Tuamotu and Marquis islands in. 1940
**Pacific (east)**, Bossiella from. 3136
**Pacific (equatorial and northern)**, environmental relationships and distribution of planktonic foraminifera in. 1346
**Pacific (North)**,
  recurrent groups of diatoms in. 2519
  small-scale distribution of oceanic diatoms in. 6522
**Pacific (Northwest)**,
  new genus Schizothyriaceae from. 1857
  prospects for sea farming in. 7690
**Pacific (subantarctic)**, Pleistocene calcareous nannoplankton of. 4046
**Pacific coast**,
  of North America, Antithamnion and related genera occurring on. 4001
  of North America, Iridoea from. 4002
  of North America, revision of Porphyra on. 3886

**Paddy**, control of disease of. 4608
**Paecilomycosis** in a dog. 2945
**Paediatric application** of laminar flow systems. 4339
**Pakistan (West)**, Ganoderma lucidum causing basal stem rot in hardwoods in. 3002
**Palaeobotany**, review. 7177
**Paleocene (late)**, in the Otway basin. 3290
**Paleoclimatic reconstructions** based on quaternary planktonic Foraminifera of the Atlantic Ocean. 3254
**Paleontology**, quantitative methods and applications after the study of Charophyta. 6709
**Palm (coconut)**, stem rot of. 3051
**Palm diseases (oil)**, survey of in Indonesia. 1777
**Palm stem rot (oil)**, influence of type of planting material and of mineral nutrition on. 1796
**Palmettes**, of Leptoporus lignosus, determinants in the aggregation of filaments into. 5251
**Palmitic acid**, effect on recovery of Candida albicans from UV light. 3488
**Palynology**,
  role of Myomycetes spores in. 13
  of a section from a raised peat bog. 6540
**Pan troglodytes**,
  experimental infections of with Trypanosoma. 2954
  Geotrichum and yeasts of oral cavity of. 6866
**Panagrellus redivivus**, attraction and killing of by Arthrobotrys dactyloides. 7470
**Panama**,
  leishmaniasis among forest mammals in. 411
  malarial parasites of the 'Jesu Cristo' lizard in. 4054
  natural infections of Triatoma dispar with Trypanosoma cruzi in. 5675
  Plasmodium falciparum malaria in resistant to 4-aminoquinoline drugs. 4482
  response of drug-resistant Plasmodium falciparum to combined therapy in. 7568
**Panama (eastern)**, enzootic cutaneous leishmaniasis in. 4963, 5296
**Pandanus odoratissimus**, Meliola juttingii on. 3267
**Pangolin (Indian)**, Toxoplasma gondii isolated from. 4531
**Panidazole**, laboratory evaluation of. 5680
**Pannon (Lower)**, diatoms of arising from the neogenic pool of Csakvar. 3995
**Panogen**, effect on Aspergillus niger in vitro. 6134
**Pansporoblast**, of Thelohania bracteata, preliminary observations on the fine structure of. 1899
**Panstrongylus megistus**, Octosporea carloschagasi in. 5937
**Panthera pardus**, Babesia pantherae of. 5684
**Pantothenate-deficient mice**, tissue utilization of pyruvate in, study using Trypanosoma duttoni. 472
**Pantothenic acid**, in microorganisms, studies on metabolism of. 4104, 4105
**Pantothenic acid deficiency**, effect on lipid metabolism in the yeast. 4247
**Papain**, in Aspergillus oryzae, study of the number of sulphydryl and disulphide groups in. 1442
**Papanicolaou smears (cervical-vaginal)**, squamous cell changes associated with presence of Candida in. 2232
**Papaya**,
  effect of virus infection of the rhizosphere mycoflora of. 6391
  fruit rot of. 3787
  in Hawaii, incidence, epidemiology and control of fruit diseases of. 3772
**Papermill**, biological purification of waste waters from by infiltration into soil. 5144
**Papillitis (vascular pseudo)**, microaneurysms of the capillaries of the retina in a case of. 2935
**Papua**,
  coffee eradication in a previously coffee rust infected area. 1764
  parasites of man in. 6225
  problems facing malaria eradication programme in. 6784
**Papulosin**, of Valsaria rubricosa. 6076
**Parachute nylon**, effects of Penicillium janthinellum on. 1193
**Paracoccidioidomycosis**,
  clinical and mycologic study of 41 cases in Brazil. 6245
  indirect fluorescent-antibody and quantitative agar-gel immunodiffusion tests for the serological diagnosis of. 7505
N-**Paraffin**,
  oxydation, by yeast cells, localization of. 1468
  production of citric acid from by fluoroacetate sensitive Candida lipolytica mutants. 5441
  utilisation of by marine yeast for low temperature fermentation. 2703
**Paraffin (liquid)**, physiological properties of thermotolerant and thermophilic microorganisms growing on media with. 5535
n-**Paraffin (pure)**, metabolisable energy of yeast grown on and use in rations for broiler chicks. 5784
**Paraffin containing media**, localization of hydrocarbons in Candida guilliermondii grown in. 4216
n-**Paraffin-grown yeast**, effect of different dietary levels of on growth and food intake o broiler chicks. 5785
N-**Paraffin transport**, into yeast cells, mechanism of. 2052
**Parana River islands**, taxonomy of thecamoebae

**Parana River islands, contd.**
  from water bodies in. 1255
**Parakeet**, aberrant leucocytozoon infection in. 6892
**Paraquat**, effect on growth and sporulation of Septoria. 1553
**Parasite**,
  of man in Papua-New Guinea. 6225
  role of iron in interaction with host. 1524
**Parasite (intestinal)**, of natives of central Kenya. 415
**Parasitemia**, in Trypanosoma gambiense-infected rabbits, effect of hydrocortisone on. 5053
**Parasitism**,
  among Euglenoidina, formation and evolution of. 4720
  in Hemileia. 7117
**Parasitism (experimental endo)**, study of with Trichomonas vaginatis in the mouse. 2952
**Parasitism (obligate)**,
  in Phytophthora, relation to ultrastructure. 2454
  studies on the physiology of. 6099
**Parasitism (self)**, in Aspergillus flavus. 5841
**Parasitology**, illustrations in. 6160
**Parasitorhabditis**, culture of on a fungus. 932
**Parasitoses** in zoological gardens, importance of parasitological control examinations and prophylactic and therapeutic measures for control of. 6788
**arenteral feeding**, fungal septicaemia complicating. 1678
**arenteral nutrition**, growth of Candida albicans in solutions for. 2815
**areomomycin**, treatment of amebiasis with. 2911
**areomomycin sulphate**, effect on Entamoeba histolytica in vitro. 3511
**article transport (polarized intracellular)**, saltatory movements and cytoplasmic streaming of. 6422
**articles (biological)**, separation of by centrifugation in density gradients. 6711
**articles (indigestible)**, relation to food uptake and metabolism of Tetrahymena pyriformis. 3578
**articles (membrane-bound elementary)**, absence of following negative staining of respiratory-deficient baker's yeast. 5200
**articulate matter**,
  interaction of in food uptake by Tetrahymena pyriformis. 3577
  in seawater, surface charge of. 7721
**articulates (naturally occurring)**, eutrophication implications of interactions between methane oxidizing bacteria and. 6515, 7163
**artridge kidney cells**, comparative development of Eimeria tenella in primary cultures of. 3985
**Parzate**, evaluation of against foot-rot of wheat. 2366
**Paspalum scrobiculatum**, Helminthosporium turcicum causing blight disease on. 515
**Passiflora edulis**, Phytophthora stem rot of. 4539
**Passion fruit**, Phytophthora stem rot of. 4539
**Pasteur reaction (normal)**, in baker's yeast, disturbance of. 2048
**Pathogenesis**,
  Bremia lactucae on lettuce cultivars. 16
  of Ceratocystis stenoceras, comparison with Sporothrix schenckii. 1221
  of Dientamoeba fragilis. 6275
  population density of Phytophthora parasitica var. nicotianae in relation to. 7109
**Pathogenic fungi (phyto)**, development of tolerance to systemic fungicides by. 5518
**Pathogenic specialization** in Fusarium graminearum. 1779
**Pathogenicity**,
  of Australian isolate of wheat rust grown in vitro. 2499
  of Cephalosporium gregatum isolates, variation in. 3773
  of Cochliobolus heterostrophus, genetic control of. 2154
  of Cochliobolus sativus, influence of nitrogen and vitamin source on. 3227
  of different isolates of Phialophora cinerescens with respect to pinks. 6973
  of Entamoeba histolytica. 2288
  of entomopathogenic fungi in relation to Carabidae. 6289
  of fungi. 6829
  of Fusarium oxysporum, techniques for determination of. 3548
  of Haemoproteus columbae. 7600
  of Mattesia oryzaephili from Oryzaephilus surinamensis. 7604
  of Monilinia fructicola. 3753
  in Phytophthora capsici, identification of strs and inheritance of. 4376
  of Puccinia on Latin American maize germ plasm. 660
  of Pythium, effect of temperature on. 883
  of Rhizoctonia solani from sugar beet, correlation of cultural characters and source of isolates with. 3915
  of saprophytically growing Melampsora lini race 3. 1921
  in Sclerotinia from Saskatchewan, variations and correlations within and between morphology, pectolytic enzyme activity and. 5340
**Pathogenicity (microbial)**, little-known determinants of. 7502
**Pathogenicity (protozoal)**. 6855
**Pathogenicity test**, for Candida, chick embryo inoculation as. 2122

**Patulin,**
- conversion of 6-methylsalicylic acid into by Penicillium urticae. 4188
- effect on Sclerotium cepivorum causing white rot of onion. 1552

**Patulin mycotoxins,**
- inactivation of with sulfhydryl groups. 1483
- investigation of inactivation of with sulphydryl groups. 1483

**Pea,**
- effect of Pratylenchus penetrans on Fusarium wilt resistance in. 2360
- infected with Fusarium oxysporum f. sp. pisi race 1, multiple molecular forms of enzymes in. 6361
- influence of ferredoxin on activity of ribulosediphosphate and phosphoenolpyruvate carboxylases in. 4238
- inoculated with Monilinia fructicola, inermin associated with pisatin in. 4545
- interation of nematodes with Fusarium on. 3048
- Fusarium foot rot of as influenced by soil applications of anhydrous ammonia and ammonia-potassium azide solutions. 4586
- methods for systemic infection of with Peronospora pisi. 3533
- physiologic specialization in Aphanomyces euteiches in. 6897
- predisposition to pre-emergence mortality in soil in. 500
- residual dexon and the persistent effect of soil treatments for control of Aphanomyces euteiches root rot of. 1161
- transmission experiments with false leafroll virus of. 4542
- in Washington, Pythium ultimum as root pathogen of. 2988

**Pea (sturt),** as host for collar rot fungus. 1754

**Pea fodder (pigeon),** microbial population of strained rumen liquor of lactating cows fed with. 5938

**Pea pots,** effects of transplanting tobacco seedlings in on plant vigour and susceptibility to Thielaviopsis root rot. 6363

**Pea seed (stored),**
- deterioration of. 7015
- deterioration of by Aspergillus ruber. 4646, 4647

**Pea vine,** infection of with fungal diseases under the Poltava district conditions. 6353

**Peach,**
- association of Cylindrocladium with 'short life' of in Georgia. 1134
- extracellular enzymes and pathogenesis of Cytospora of. 3339
- heated wax-emulsions with benomyl and 2,6-dichloro-4-nitroaniline for control of post harvest decay of. 4642
- Taphrina deformans parasitic on. 1115

**Peach canker,** in Niagara Peninsula, survey of. 6334

**Peach fruit,** infected with Monilinia fructicola, factors influencing lesion expansion in. 4546

**Peach fungus disease,** new spray programme for. 5723

**Peach leaf and fruit,** penetration of by Monilinia fructicola. 3753

**Peanut,**
- dichlorvos as inhibitor of aflatoxin production on. 7405
- distribution and significance of rust of in Georgia. 6932
- effect of aureofungin spray on control of fungal diseases and Aspergillus flavus infestations in. 1776
- influence of fungicides and irrigation practice o aflatoxin in before digging. 1165

**Peanut field,** effect of post-emergence application of potassium azide on nematode populations and development of Sclerotium rolfsii in. 6982

**Peanut pods,** effects of Meloidogyne arenaria and curing time on infection of by Aspergillus flavus. 1129

**Peanut pods (developing),** mycoflora of in Oklahoma. 1775

**Peat,**
- formation of extracellular lipids by yeasts isolated from. 7299
- from milled fields, microflora of. 5774
- utilisation for growth of Candida utilis. 2731
- utilisation of for obtaining fermentable substrates. 2816

**Peat bog,** in Czechoslovakia, Leccinum scabrum in. 2387

**Peat bog (raised),** palynology of a section from. 6540

**Peat extract (acid catalysed),** study of. 2817

**Peat hydrolysate (highmoor),** influence of pH of the medium of the lipid composition of yeast grown on. 6052

**Pecan meat,** microbial flora of. 532

**Pecan orchard hedgerows,** hosts of Cristulariella pyramidalis in. 5103

**Pectic enzymes,** produced by Diplodia gossypina, in vitro and in infected cotton bolls. 1136

**Pectin acid (cross-linked),** selective purification o Aspergillus niger endopolygalacturonase by affinity chromatography on. 5345

**Pectin lyase,** in Cercosporella herpotrichoides, activity of. 176

**Pectin methylesterase,** in Cercosporella herpotrichoides, activity of. 176

**Pectinase,** from Fusarium oxysporum f. sp. elaeidis, properties of. 1420

**Pectintranseliminase,** of Aureobasidium pullulans,

**ectintranseliminase, contd.**
- study of. 757

**ectolytic enzyme activity** in Sclerotinia from Saskatchewan, variations and correlations within and between morphology, pathogenicity and. 5340

**ectolytic enzymes,**
- biosynthesis of by Aspergillus awamori and Botrytis cinerea on milk whey. 7240
- conditions for precipitation of by tannin and gelatin in the deep culturing of Sclerotinia sclerotiorum on pectin-containing media. 5339

**elargonium**, black stem rot of. 6902

**ellicle (ciliate)**, membrane-microtubule-microfilament relationships in. 1259

**ellicle (isolated)**, of Tetrahymena, DNA from. 1968

**elvetian,**
- in brown algae, molecule fragmentation of. 811
- of brown algae, Smiths degradation of. 812

**enetration**, of poultry coccidia, into cultured cells, scanning electron microscope study of. 604

**enicillic acid,**
- analysis of tobacco and smoke condensate for. 7307
- bioproduction of by Aspergillus ochraceus. 6637
- isolation and identification of. 4190
- potential production and detoxification of in mould-fermented sausage. 7319

**enicillic acid (dihydro)**, isolation and identification of. 4190

**enicillin,**
- antagonistic effects to phalloidin and $\alpha$-amanitin. 2939
- curative potencies of in experimental Amanita phalloides poisoning. 2938
- effect on growth and development of nitrogen fixing blue-green algae. 4694
- studies of allergy to in the course of dermatomycoses. 2904
- in the treatment of pulmonary mycoses. 2241

**enicillin biosynthesis,**
- effect of exogenous penicillin on. 4893
- new method of intermittent feeding in. 6175

**enicillin resistant staphylococcal septicaemia** successful treatment of with vancomycin and fucidin. 7536

**enicillin V (anhydro)**, phenoxyacetylthioglycyl-(+)- valine as metabolite of. 4827

**ennate diatoms**, ectocommensals of free-living marine nematodes. 1300

**ennisetum purpureum**, as host for Pyricularia oryzae. 5752

**ennisetum typhoides**, Cercospora leaf spot in India in. 507

**entachloronitrobenzene**, effect of on sensitive and resistant Aspergillus nidulans. 5507

**Pentachlorophenol,**
- influence of on glucose metabolism by Aspergillus niger. 5392
- methylation by Trichoderma virgatum. 5448

**Pentamidine,**
- therapeutic effect on rodent malaria. 1087
- treatment of trypanosomiasis with. 2910

**Pentenoic acids**, in Fusarium cubense, Mevalonate as a precursor of. 211

**Pentose analysis**, determination of nucleotide sequence in 14 dinucleotides modified by 2'-0-methylation from yeast RNA by. 5313

**Pentose phosphate cycle**, in Chlorella cells, spectrophotometric determination of the intermediates of. 2657

**Pentose phosphate pathways**, in Aspergillus niger growth cycle, changes in activities of. 172

6-**Pentyl-$\alpha$-pyrone**, characterization of of the major aroma constituent of Trichoderma viride. 4224

**Pentylenetetrazol**, seizure induction by in rodents receiving Candida albicans glycoprotein orally. 1481

**Peperomia**, resistance to infection by Phytophthora palmivora from Piper nigrum. 499

**Pepper (black)**, Phytophthora foot rot of in Brazil and Puerto Rico. 4540

**Peppermint**, Rhizome and stem rot of caused by Phoma strasseri. 2376

**Peptidase**, from Aspergillus oryzae in digestion of soybean proteins, action of. 5349

**Peptidase (acid carboxy)**, from Aspergillus, purification and characterisation of. 2625

**Peptidase (amino),**
- of Basidiomycetes. 6600
- in human dentine, ability of microorganisms to produce histochemically determinable enzyme activity of. 1416

**Peptidase (aspergillo)**, terminal residues of. 751

**Peptidase (di-isopropyl phosphorofluoridate-sensitive plant carboxy and yeast)**, radiochemical determination of unique sequence around the reactive serine residue of. 5991

**Peptidase (endo)**, of Microsporum canis, localization and secretion of. 1422

**Peptidase (exo)**, effect on yeast enolase of digestion by. 736

**Peptidase (leucinamino)**, study of the cytochemical behaviour of in different growth phases of fungi. 6612

**Peptidase A**, in Penicillium janthinellum, effect of nystatin on the formation of. 6136

**Peptide (di)**, in ergotoxine-alkaloids, incorporation of. 3379

**Peptide (fructose)**, effect on microorganisms. 1595

**Peptide (glyco)**, from Aspergillus fumigatus,

**Peptide (glyco), contd.**
  chemical and immunological properties of. 204, 2856
**Peptide (oligo),**
  in Neurospora crassa, subcellular and generic distributions, molecular weights and proportions of. 2001
  specificity of serine proteinases from microorganisms with. 1986
**Peptide (peptic),** of Streptomyces griseus Protease A. 807
**Peptide (poly),** see Polypeptide.
**Peptide (related glyco),** from fungal, parasitic and vegetable sources, antigenic and C-substance activities of. 5595
**Peptide (substituted 14-22 and 11-17 fragments),** of yeast cytochrome c, synthesis of. 804
**Peptide (synthetic),** action of yeast proteinase C on. 6015
**Peptide antibiotics,** from Trichoderma. 263
**Peptide bonds,** of the oxidized B-chain of insulin, hydrolysis of by Endothia parasitica protease. 4097
**Peptide-chain elongation factors (mitochondrial),** in yeast deficient in mitochondrial DNA, production of. 2573
**Peptides and cyclic depsipeptides,** from Amanita phalloides, conductometric study of complex formation of. 250
**Peptidyl-puromycin reaction,** with Neurospora crassa ribosomes. 1363
**Peptidylhydroxamate,** formation in yeast. 1438
**Peracetic acid,** shoe disinfection for the destruction of foot fungi with. 4303
**Perchlorate,** action of Chlorella fusca on. 860
**Perfect state,**
  of Microsporum gypseum, determination of in clinical isolates. 1246
  of Phyllosticta cycadina. 517
**Perhydroantamanide,** effect of on the permeability of model and biological membranes. 4179
**Pericarditis,**
  in the Dakar black African. 1712
  due to Entamoeba histolytica. 5641
**Pericarditis (amoebic).** 1710, 4479, 6841
**Pericardium,**
  amoebiasis of following amoebic liver abscess of the left lobe. 3660
  diagnosis and treatment of rupture of amoebic abscess of the liver into. 6836
**Peridermium harknessii,** occurrence and significance of fungi inhabiting galls caused by. 6556
**Perinatal period,** morphology of infections of the central nervous system in. 6850
**Periodicity,**
  of endocytosis in Tetrahymena pyriformis. 2820
  of spore discharge in Hysterium tamarindi. 303
**Periodicity (circadian),** in the colonization activity of drifting algae. 549
**Periodicity (seasonal),** of planktonic desmids in Windermere. 7150
**Perioral dermatitis,**
  aetiological aspects of. 1680
  and Candida albicans. 6815
**Peripheral circulation,** pathogenesis of tinea pedi in relation to diseases of. 2901
**Peripheral circulation disorders,** relation to tinea pedis. 446
**Periplast,** of Chroomonas, micromorphology of. 2442
**Peristome,** in Entodinium caudatum, study of. 66
**Perithecia,**
  in Aspergillus nidulans, biochemical investigation of lack of. 975
  of Gnomonia fructicola, production of. 3965
  of Pleospora herbarum, regulation of development and maturation of by light and temperature. 1275
**Perithecia (Proto-),** in Chaetomium, study of. 78
**Perithecial production** in Glomerella cingulata, influence of light on. 7366
**Peritoneal fluid,** fatal postpartum amoebic colitis with trophozoites in. 4474
**Peritonitis** from amoebic abscess of liver. 6278
**Peritonitis (amoebic),** 73 cases of. 3661
**Peritonitis (Candida),** in a quadriplegic. 4451
**Permafrost,** evidence for longevity of seeds and microorganisms in. 4744
**Permeability** of Nitella internodal cell to organic substances. 4204
**Permeability properties** from wild-type and respiration-deficient yeast. 5998
**Permeabilized yeast mutants,** defective DNA synthesis in. 1367
**Permease (general amino acid),** ammonia inhibition of and its suppression in NADPH-specific glutamate dehydrogenaseless mutants of Saccharomyces cerevisiae. 659
**Permease (maltose),** differential sensitivity of to the effect of glucose in Saccharomyces carlsbergensis. 5329
**Peroxidase,**
  changes in potato tuber after wounding and infection with Phytophthora infestans. 496
  from Fusarium graminearum isolates. 177
  Poria weirii as possible commercial source o 6000
  production of by wood-rotting fungi. 4226
  relationship between types of laccase and isoenzymes of Basidiomycetes. 7238
**Peroxidase activity,**
  effect of intensity and quality of light on in association with Septoria leaf spot of tomato. 1783
  in Saccharomyces cerevisiae, cytochemical

**eroxidase activity, contd.**
localization of. 5336
**eroxidaseless chicken heterophile leucocytes,** microbicidal activity of. 4297
**eroxisomes,**
in Chlorella vulgaris mutant, enzymic evidence for. 2584
of Tetrahymena pyriformis str ST, sedimentation characteristics after chloramphenicol-inhibited growth. 921
of yeast and other fungi. 1250, 5848
**eruvian coastal waters,** phytoplankton populations, nutrients and photosynthesis in. 3241
**eruvian upwelling system,** gross features of. 2538
**est control (integrated),** in Czechoslovak forest nurseries. 7678
**et (household),** spread of zoonotic diseases by. 4407
**eterhof breeding stocks,** of yeast, identification of linkage groups of. 969
**eterhof genetic strains,** of polyploid yeasts, analysis of segregation in. 2174
**etite mutant** in yeast. 2162
**etite' mutation,** of yeast, relationship to a fatty acid composition. 6053
**etite mutation (cytoplasmic),** in Saccharomyces cerevisiae, UV-induction of. 3483
**etrochelidon pyrrhonota,** Isospora petrochelidon from. 6313
**etrochemical raw materials,** nutritive value of yeasts of. 1812
**etroleum hydrocarbon,** improvement of protein value of yeast grown on. 2151
**etroff Hauser counting cell** for counting rumen protozoa. 367
**etunia,** control of Fusarium wilt with soil fumigants in. 513
**H,**
chemotactic effects of on Stentor coeruleus. 2738
control of chlorophyll a fluorescence in algae. 272
effect of on alkaline protease from Acremonium kiliense. 6002
effect on fungicidal activity of potassium azide. 3092
effect of growing algal cells on. 4317
effect on growth and development of Actinomyces spheroides. 893
effect on growth interactions between Chlamydomonas globosa and Chlorococcum ellipsoideum. 3997
effect on $^{32}$p-labelling of polyphosphates and organic phosphates in Ankistrodesmus braunii in the light. 2710
effect on oospore germination in Pythium aphanidermatum. 619
effect on physiological properties of Candida utilis. 306
effect on sugar transport in Neurospora conidia by. 2733
effect on synchrony of Euglena gracilis. 1506
effect on taxonomic characters of Diplodia. 3466
of the medium, influence of on the lipid composition of yeast grown on highmoor peat hydrolysates. 6052
in relation to the antimalarial action of chloroquine. 2763
role in elaboration of pullulan by Pullularia pullulans. 816
of yeast cell, determination of. 6096
**pH (culture),** effect on photo-inhibition of division in Euglena gracilis. 4242
**pH (highly alkaline),** in lake in Nicaragua. 642
**pH (Intracellular),** role of in the regulation of cation exchanges in yeast. 4851
**pH (low),**
effect of during Eimeria acervulina infection in the domestic fowl. 3726
stability and activity of endo-polygalacturonase from Corticium rolfsii at. 3332
**pH (media),** relation to nitrogen nutrition of Rhizopus nigricans. 3571
**pH (soil),** effect on on Verticillium and Fusarium wilt of tomato. 5130
**pH changes (photoinduced),**
in cell suspensions of Anabaena variabilis and Synechocystis aquatilis. 3433
in obligate phototrophic blue-green algae cell suspensions, correlation with photosynthetic $O_2$ evolution and after-light respiration. 5424
**pH-dependent inactivation and reactivation,** of yeast phosphofructokinase, studies on. 6013
**pH Optimum,** of acid phosphatase in Saccharomyces cerevisiae, modification of. 4774
**Phaeophyta,** life histories of some from eastern Canada. 72
**Phage,** development in lysogenic E. coli and mutations in fungi induced by analogues of tris(1-aziridinyl) phosphine oxide. 898
**Phage (A-1(L)-cyano-),** of Anabaena variabilis. 7679
**Phage (cyano-),** Aphanizomenon flos-aquae infected with. 6373
**Phage DNA** directed enzyme synthesis in in vitro system from yeast mitochondria. 5986
**Phage-like inclusions** in a Kappa symbiont of Paramecium aurelia. 5760
**Phage-like particles,** in Paramecium, observations of. 1792
**Phagocyte function (deficient alveolar),** bronchopulmonary infections and. 5613
**Phagocytic activity** of circulating leucocytes,

**Phagocytic activity, contd.**
  simple method for the evaluation of. 5531
**Phagocytic reaction** in Amoeba proteus. 6753
**Phagocytic test** in synovial fluid from patients with rheumatism. 5530
**Phagocytosis,**
  of Candida albicans by eosinophilic leucocytes. 5475
  of Candida albicans, by mouse peripheral blood leucocytes, role of complement in. 2207
  of Crithidia by Entamoeba histolytica, electron microscopic observations of. 7474
  of Cryptococcus neoformans. 6699
  effect of cytochalasin B on. 7314
  influence of urban low- and radio-frequency electromagnetic fields on. 7391
  of Plasmodium berghei, by rat macrophages in vitro. 4862
  relation to cellular immunity in vitro. 1656
**Phagocytosis (in vitro),** and intracellular fate of variously encapsulated Cryptococcus neoformans. 4858
**Phagolysis,** of Actinomyces spheroides. 1157
**Phalloidin,**
  decreased toxicity of in partially hepatectomized rats. 4178
  protection against by phenylbutazone and rifampicin. 2939
**Phalloidin poisoning** in vitro, inhibition of by 4,7-phenanthroline. 4824
**Phallotoxins,** relation of toxicity and conformation of. 251
**Pharmaceutical products,**
  elimination of choline interference in microbiological assay of inositol in. 3539
  rapid screening of preservatives for. 1574
**Pharmaceutical syrup,** study of the microbial contamination of. 6415
**Phaseollin,** formation and activity in the interaction between bean hypocotyls and Colletotrichum lindemuthianum. 2353
**Phaseollin (phytoalexin),** mode of action of. 3507
Phaseollin **accumulation** in bean in response to infection by tobacco necrosis virus and Uromyces appendiculatus. 2346
**Phaseollin production (hydroxy),** by various soybean tissues. 7622
**Phaseolus aconitifolius,** infected by Colletotrichum truncatum, changes in chlorophyll a and b contents in leaves of. 4577
**Phaseolus lunatus,** occurrence of downy mildew on. 5713
**Phaseolus vulgaris,**
  control of rust in. 3015
  occurrence of antagonistic microorganisms in the rhizosphere of. 2390
  production of Phytoalexins after innoculation with Colletotrichum lindemuthianum. 511

**Phasianus colchicus torquatus,** as host for Heterakis gallinarum and Histomonas meleagridis. 5047
**Pheasant (Nebraska),** parasites of. 7596
**Pheasant (ring-necked),** as host for Heterakis gallinarum and Histomonas meleagridis. 5047
**Pheasant kidney cells,** comparative development Eimeria tenella in primary culture of. 398
**Phenacetine,** determination of with Hematococcus pluvialis. 905
**Phenanthrene amino alcohols,**
  effectiveness against Plasmodium berghei in mice. 919
  structure-activity relationship studies on. 29
**Phenanthrene derivatives,** effect on Fusarium an Verticillium-wilt of tomato. 3778
**Phenanthrene methanol,** effectiveness against Plasmodium berghei in mice. 919
**Phenanthrene methanol (erythro and threo-alpha- 2-piperidyl-3,6-bis trifluoromethyl),** antimalarial activity and conformation of. 3513
**Phenanthridine,** inhibited incorporation of AMP-8 $^3$H into nucleic acids of erythrocyte-free malarial parasites by. 4863
4,7-**Phenanthroline,** inhibition of phalloidin poisoning in vitro by. 4824
1,10-**Phenanthroline bases,** lethal action of hydrochlorides, methiodides and transition metal chelates of on dermatophytes and Candida albicans. 2754
**Phenethyl alcohol treatment,** regional multiplications of kinetosomes and cytokinesis in normal Chilodonella cucullulus and after. 3193
**Phenol,**
  biosynthesis of. 3424
  biosynthesis and regulation of. 3411
  effect on germination of conidia of Cercospor beticola. 1527
  excretion of by algae. 864
  formation of humic substances and distributio of nitrogen during degradation of straw in relation to microbial synthesis of. 3841
  of white clover, effect of fungal diseases on. 1113
**Phenol (Cinnamyl),** as inhibitors of fungal growt 6703
**Phenol (isoprenoid),** in fungi, intracellular distribution of. 2698
**Phenols (poly),**
  pigment production by Cryptococcus neoforma on. 874
  study of in sugar cane in relation to red rot disease. 5721
**Phenol adapted sludge,** characteristics of yeasts isolated from. 960
**Phenol derivatives,** utilization by yeasts. 962

**henolic acids**, changes in potato tuber after wounding and infection with Phytophthora infestans. 496
**henolic compounds**, from red alder and Douglas-fir roots, inhibition of Poria weirii with. 2751
**henolic compounds (yellow, water soluble)**, from Chlorococcum ellipsoideum and Chlamydomonas globosa. 5940
**henolic polymer production**, by Stachybotrys, Hendersonula toruloidea and Aspergillus sydowi, influence of nitrogen source and clay on. 4259
**henolic reactions** and the production of phytoalexine in Lycopersicum plants infected with Phytophthora. 4536
**henoloxidase**, of Podospora anserina, electron microscope studies of. 5981
**henotype**,
  genotypic variation in, as basis for somatic hybridization in rust. 395
  of temperature-sensitive respiration-deficient mutant of yeast. 2834
**henotype (mitochondrial)**, observations on in single paramecium cells. 4311
**henotypic expression** of mutations in yeast, effect of genotype on. 6765
**henotypic specificity** of aneuploid states in Aspergillus nidulans. 1625
**-Phenyl-3,3-dimethyl-thiazine**, mutagenicity of in Neurospora crassa. 1534
**-Phenyl-3-monomethyltriazene**, mutagenicity of in Neurospora crassa. 1534
**henylalanine**,
  in Sporobolomyces pararoseus, activity of. 1990
  sterospecific exchange reaction at the $\beta$-$CH_2$ of. 3391
  of yeast, inhibition and activation of methylation of. 7213
**henylalanine ammonia-lyase**, from Rhodotorula glutinis, purification properties and identification of catalytically essential dehydroalanine of. 763
**henylalanine incorporating system (in vitro)**, from Rhizopus arrhizus, characteristics of. 6036
**henylalanine polymerization**, effect of bound peptidyl-tRNA in Neurospora crassa ribosomes at low $Mg^{2+}$ concentration on. 2571
**henylalanine transport**, in Tetrahymena pyriformis, characteristics of a concentrating, inducible transport system of. 5383
**henylalanyl tRNA synthetase**, of yeast, purification, molecular weight and subunit structure. 169
**henylbutazone**, antagonistic effects of to phalloidin and alpha-amanitin. 2939
**henylcarbamate**, effect on Chlorella pyrenoidosa growth. 5496
**Phenylhydrazine**, effect on dimorphism in Verticillium albo-atrum. 2760
**Phenylmercuric acetate**, regulation of yeast acid phosphatase by. 7227
**Phenylmercuric chloride**, suppression of ascospore production by Venturia inaequalis by. 4886
**3-Phenyloxazolidine-2,4-diones**, antimicrobial activity of. 2750
**Phenylpropanoid compounds**, microbial degradation of. 7338
**1-Phenylpyrrolidine-2-5-diones**, antimicrobial activity of. 4885
**2-Phenylquinoline-4-carbinols**, Free-Wilson analysis of. 2964
**Phialides**, Melanconiales possessing. 2500
**Philippines**,
  anopheline mosquitoes of and status of the local malaria vector. 1652
  chloroquine and other antimalaria drug resistant Plasmodium falciparum from. 2267
  filariasis survey among indigenous tribes of. 6783
  Giardia canis as un unreported protozoan parasite of dogs in. 7588
  presence of Hepatozoon canis in. 6890
**Philippine str of Plasmodium falciparum** resistant to amodiaquine in. 7567
**Philodendron panduraeforme**, description and control of Pythium root rot. 5074
**Phlebotominae**, pylorus of in relation to the presence of Leishmania. 675
**Phlebotomus longipes**, liver and yeast as larval diets in colonisation of. 3104
**Phlebotomus rondani**, from South West Africa. 2849
**Phloem**, of Ulmus americana, effects of Ceratocystis ulmi on. 6328
**Phlox divaricata**, development and control of Cercospora omphakodes in. 3029
**Phosfon D**,
  effect on dermatophytic fungi. 2759
  effect on Fusarium and Verticillium wilt of tomato. 1138
**Phosphatase**, in Coprinus, function of in autolysis. 1405
**Phosphatase (acid)**,
  activity of in Dictyostelium discoideum in axenic culture. 3310
  from Fusarium moniliforme, studies on substrate specificity and mode of action of. 7247
  localization of during differentiation in Dictyostelium discoideum. 5967
  modification of pH optimum for in Saccharomyces cerevisiae. 4774
  in Physarum flavicomum, digestion and distribution of. 6584

**Phosphatase (acid), contd.**
  in Physarum polycephalum, activity during spherulation induced by mannitol. 1391
  synthesis of in Dictyostelium discoideum myxamoebae differentiation in axenic culture. 3311
  from yeast, regulation of by orthophosphate and phenylmercuric acetate. 7227
**Phosphatase (acid and alkaline),**
  from baker's yeast, release of in an industrial homogenizer. 3328
  from Entamoeba histolytica in axenic culture, activity of. 3341
  in human dentine, ability of microorganisms to produce histochemically determinable activity of. 1416
  in Schizophyllum commune. 6599
**Phosphatase (alkaline),**
  activity of in Dictyostelium discoideum in axenic culture. 3310
  of Anabaena flos-aquae in continuous culture, relationship with phosphates. 1383
  Coprinus lagopus, conditions for production and genetics of. 1404
  of Neurospora crassa, product inhibition studies of. 6586
  synthesis of in Dictyostelium discoideum myxamoebae differentiation in axenic culture. 3311
**Phosphatase (exocellular acid),** in Saccharomyces mellis, recovery of after treatment with reagents that effect the cell surface. 1401
**Phosphatase (fructose bis),** of Candida utilis, models for the interpretation of allosteric inhibition of by adenosine monophosphate. 6104
**Phosphatase (fructose-1,6-di),** from fermenting and nonfermenting yeast. 2597
**Phosphatase (fructose 1,6-di and sedoheptulose 1,7-di),** from Candida utilis, purification and properties of. 1419
**Phosphatase (haloacetol),** affinity labelling of yeast aldolase by. 775
**Phosphatase (intestinal),** changes in activity of during experimental coccidiosis of chickens. 2958
**Phosphatase (NADP),** from Chlorella. 4086
**Phosphatases (poly),**
  hydrolyzing polyphosphates to orthophosphates in subcellular structures of Neurospora crassa, localization of. 4098
  of Neurospora crassa hydrolising inorganic polyphosphates to orthophosphates, properties of. 2592
**Phosphatase (repressible),** in Neurospora crassa, genetic control of the synthesis of. 2827
**Phosphatase (specific alkaline p-nitrophenyl),** from baker's yeast, activity of. 4776
**Phosphatase activity (acid),**
  of Ophryoglena mucifera, localisation of. 2643
  and ultrastructure of aged Euglena granulata. 4763
**Phosphatase activity (alkaline),** association of freshwater bacteria with algae and. 5282
**Phosphatase activity (pyro),** of phosphate-starved cells of Candida utilis. 5352
**Phosphatase V (acid),** from Aspergillus nidulans, purification and characterization of. 5344
**Phosphate,**
  of Anabaena flos-aquae in continuous culture, relationship with alkaline phosphatase. 1383
  assimilation of by Trypanosoma cruzi. 2736
  control of by flocculation and filtration. 1816
  effect on development of vesicular-arbuscular mycorrhiza in culture. 3452
  effect on synchrony of Euglena gracilis. 1506
  effect of temperature on uptake in P-starved Candida cells. 890
  eutrophication of Lake 227 in Northwestern Ontario by addition of. 4724
  in lake water and Cyanophyta, catalytic mobilization of. 640
  role in nucleic acid metabolism of Euglena gracilis. 701
  variation in toxicity of arsenic compounds to microorganisms and suppression of inhibitory effects by. 3501
**Phosphate (inorganic),** solubilization of by bacteria from Upper Klamath Lake sediment 6744
**Phosphate (poly),**
  of fungi and bacteria, enzymes synthesizing. 1395
  hydrolysis of by polyphosphatases to orthophospates in subcellular structures of Neurospora crassa. 4098
  in Trebouxia erici. 862
**Phosphate (poly and organic),** in Ankistrodesmus braunii, effect of carbondioxide and pH on $^{32}$P-labelling of. 2710
**Phosphate (polyprenol),** as acceptor of mannose from guanosine diphosphate mannose in Aspergillus niger. 3365
**Phosphate (tricalcium),** solubilization by some soil fungi. 286
**Phosphate compounds,**
  investigations on the uptake and utilization of by phosphate-starved cells of Candida utilis. 5352
  uptake and utilization of by phosphate-starved Candida utilis. 4217
**Phosphate detergents,** in lake water microcosms, eutrophication potential of. 2417
**Phosphate fertilisation,**
  effect on the rhizosphere mycoflora of Oryza sativa. 3095
  effect on yield of mycorrhizal and

**Phosphate fertilisation, contd.**
    nonmycorrhizal soybeans. 3082
**Phosphate fractions (high-molecular poli),** in yeast, correlation between accumulation of cell-wall polysaccharides and. 5388
**Phosphate linkages** in phosphomannan in Saccharomyces cerevisiae cell walls, study of. 7284
**Phosphate requirements** of Nitzschia actinastroides in batch and chemostat culture under phosphate limitation. 3949
**Phosphate-starved yeasts,** overcompensation effect in. 4256
**Phosphate uptake (inorganic),** in fungi, effect of triterpeneglycosides on. 3500
**Phosphatidase,** relationship to pathogenesis by Cytospora in peach. 3339
**Phosphatides (alkenyl and alkyl),** in Proteus and its L form. 3378
**Phosphatidyl choline species** in Euglena gracilis. 4808
**Phosphatidylglycerol,** biosynthesis of during greening of Euglena gracilis Z. 3370
**Phosphatidylinositol,** in Saccharomyces cerevisiae, extracellular accumulation of glycerophosphorylinositol derived from. 7295
**Phosphodiester linkage,** of Kloeckera brevis phosphomannan, nature of. 2014
**Phosphodiesterase,**
  isoenzyme pattern and de novo synthesis of during differentiation in Physarum polycephalum. 4092
  in Physarum polycephalum, activity during spherulation induced by mannitol. 1391
**Phosphodiesterase (cyclic AMP),**
  and its inhibitor in slime mould development. 1973
  interaction with inhibitor of Dictyostelium discoideum. 2586
**Phosphodiesterase (membrane-bound cyclic AMP),** in chemotactically responding cells of Dictyostelium discoideum. 6583
**Phosphoenolpyruvate,**
  role of in short-term control of yeast isocitrate lyase. 4102
  in Tetrahymena pyriformis, enzymatic regulation of the metabolism of. 6024
**hosphofructokinase,** of yeast, mutual exchange of with dextran blue 2000. 180
**hosphoglucoisomeraseless mutant,** of Saccharomyces cerevisiae, glucose and fructose metabolism in. 225, 1364
**-Phosphogluconate,** role of in short-term control of yeast isocitrate lyase. 4102
**Phosphoglycerate mutase,** of yeast, phosphorylation of. 773
**-Phosphoglycerate/2-phosphoglycerate,** effect of on cell free extracts from spores of Phycomyces blakesleeanus. 7283
**Phospholipases,** inhibitory effect of some antibiotics on. 7410
**Phospholipids,**
  of Neurospora crassa, choline and serine incorporation into. 196
  of Saccharomyces cerevisiae, composition of during morphogenesis and effect on restoration of succinoxidase activity of lipid mitochondria. 6626
**Phosphomannan,**
  of Hansenula capsulata, enzymatic synthesis of. 728
  of Hansenula, induction of rabbit serum interferon by. 4157
**Phosphomonoesterase (acid),** in Ophryoglena mucifera, levels of at different phases of the cell cycle. 1993
**Phosphoribioziles,** study of. 7270
**Phosphorus,**
  dynamics of organic compounds of as index of biotic cycle of substances in Lake Baikal. 2537
  effect on limiting growth in Lake Lucerne. 1197
  incidence of brown rust in transplanted wheat as affected by. 5083
  in Lake Minnetonka, Minnesota. 6646
  in lake water, pathways of. 7711
  of laver, relationship between chemical constituents in environmental factors. 791
  in Porphyra, metabolism of. 863
  relation to eutrophication of freshwater lakes. 2539
  relation to eutrophication of freshwater lakes. 3566
**$^{32}$Phosphorus,** incorporated into 1 or 2 genomes of yeast zygotes, induction of recombination by decay of. 7490
**Phosphorus (aluminium-precipitated),** fate of in activated sludge and anaerobic digestion. 7025
**Phosphorus availability** in aquatic blue-green algae. 3564
**Phosphorus containing lipid** in Saccharomyces cerevisiae, turnover of. 7295
**Phosphorus cycle,**
  in artificial open systems, relation to plankton and attached algae. 4715
  in the sea, plankton as a factor in. 1314
**Phosphorus dynamics** in 3 Central Texas impoundments. 6531
**Phosphorus elimination** by algae, parameters influencing. 7359
**Phosphorus-labelling,** of Candida albicans, course of experimental infection with. 1061
**$^{32}$Phosphorus-labelling,** of nucleic acids of Euglena gracillis. 701
**Phosphorus nutrition,**
  in Anabaena doliolum and Fischerella mucicola. 4695

**Phosphorus nutrition, contd.**
- effect of the concentration levels of on the composition of fodder-yeast. 7469

**Phosphorus starvation**, of Candida utilis, effect of temperature on phosphate uptake and respiration in. 890

**Phosphorylase**, in algae, de nova synthesis of polyglucans by. 1386

**Phosphorylase a and b (glycogen)**, of yeast, purification and properties of. 2606

**Phosphorylase (orotidylic acid pyro-)**, in Saccharomyces cerevisiae, regulation of. 2604

**Phosphorylase (trehalose)**, in Euglena gracilis, partial purification and properties of. 6041

**Phosphorylation**,
- of thymidine in different organisms. 148
- of yeast phosphoglycerate mutase. 773

**Phosphorylation (de)**, in Cyanophyceae, ecophysiological studies on. 4836

**Phosphorylation (glucose)** in Euglena gracilis, partial characterization of glucokinase. 155

**Phosphorylation (oxidative)**,
- effect of inhibitors of on sterine production in yeast. 6667
- inhibition of by serum from malaria-infected animals. 487-489
- in intact cells of normal and $op_1$ mutant yeast undergoing respiratory adaptation. 2049
- in ox-neck muscle mitochondria, fuscin as inhibitor of. 6066
- in yeast. 5998, 6198

**Phosphorylation (photo)**,
- in algae, effect of inhibitors of. 7326
- in Chlamydomonas reinhardii. 2821
- in Chlorella, effect of cofactors of electron cyclic flow on efficiency of. 152
- in greening Chlamydomonas reinhardtii, development of as measured with an open-cell preparation. 4834

**Phosphorylation (site 1)**, in Candida utilis mitochondria, factors controlling the occurrence of. 7373

**Phosphorylation (sphingolipid base)**, by cell-free preparations from Tetrahymena pyriformis. 7301

**Photinia**, tuberculate and Cenococcum mycorrhizae of. 3806

**Photochemical reaction**, in chlorophyll $\alpha$-protein of blue-green alga. 192

**Photochemical systems**, membrane polypeptides associated with. 6030

**Photography** as aid in estimating annosus root rot-caused tree mortality. 2118

**Photokinesis**, of Anabaena variabilis, investigation on. 3434

**Photoinduction** of circadian rhythm in zonation of Neurospora tetrasperma, importance of str[illegible] and composition of medium in. 4850

**Photometric method** for determining the growth rate of Saccharomyces cerevisiae. 3540

**Photomorphogenesis**, of Aspergillus giganteus, nitrogen metabolism in. 6645

**Photoperiodic rhythm**, induction of growth and division synchrony in Plasmodium vinckei chabaudi by. 4267

**Photoproduction (hydrogen)**, in adapted Scenedesmu kinetics of. 1492

**Photoreactions** of system II in Chlorella, limiting reaction between. 3399

**Photoreaction (primary)**, for the production of oxygen in Chlorella. 6083

**Photoreactivation**,
- in Agmenellum quadruplicatum, action spectrum for. 3480
- capacity of UV sensitive mutants of Chlorella vulgaris. 315
- in Hansenula, phylogenetic significance of. 318
- in Schizosaccharomyces pombe. 4250

**Photoreactivation phenomenon** in Tetrahymena, effect of UV-irradiation on. 7393

**Photoreduction**, in algae, mechanism of change of into photosynthesis in the longwave spectral area. 1487

**Photorespiration**, in Anacystis nidulans, effect of monochromatic light on the extracellular excretion of glycolate and. 6658

**Photosensory cell (model)**, use of Phycomyces as. 5193

**Photosynthate**, in Nereocystis, translocation of. 3402

**Photosynthesis**,
- of Acetabularia mediterranea, effect of red and blue light on. 4234
- in Acetabularia mediterranea, rate of at different stalk regions. 2037
- in algae, specific mechanism of change of photoreduction in in the longwave spectral area. 1487
- in Anabaena heterocysts, relationship between age of culture and occurrence of pigments of photosystem II of. 5423, 6069
- in Anacystis nidulans, changes in induced by iron-deficiency. 3435
- in Chlorella, measured by repetitive short flashes. 1485
- in Chlorella, relationship between variation in xanthophyll content and oxygen evolution during. 4195
- in Chlorella pyrenoidosa, regulatory effects of ammonia on carbon metabolism during. 4194
- in Chlorogonium elongatum, regulation of under the influence of light and acetate. 2038
- of Cystoseira stricta. 3358
- dependence of nitrite assimilation in green algae on energy supplied by. 2689
- in Dunaliella, osmotic regulation of glycerol

**hotosynthesis, contd.**
production in. 273
in Dunaliella, temperature optima for. 859
of Dunaliella tertiolecta, effects of ammonia and nitrate on. 3443
electron transport system of green plants in. 7331
fluctuating units of in higher plants and fairly constant units of in algae. 1491
of Fucus vesiculosus during pulse labelling experiments. 4200
in Fucus virsoides, physiological tolerance of. 3447
of halophilic Dunaliella parva. 4196
in Hydrodictyon africanum, inhibitor effects on. 2712
in Lake Minnetonka, Minnesota. 6646
in Laminaria. 4131
in lichen. 4202
in marine algae and water permeability. 3400
in Monostroma nitidum. 7101
NADP as an obligatory intermediate in. 4197
in Peruvian coastal waters. 3241
of Phaeodactylum tricornutum and Scletonema costatum, construction of apparatus and experiments on. 4314
in Phaeosaccion collinsii, products of. 4
of phytoplankton in Lake Konon'er. 641
of phytoplankton, photoinhibition of as a function of exposure time. 4233
of plankton, potential sources of error in measurement of low rates of. 4322
in Porphyridium cruentum, metabolism of in different spectral regions. 1488
in prokaryotes and eukaryotes. 858, 1489
relation of production of $\delta$-aminolevulinic acid during the onset of green colouration of pale Euglena. 4199
of Synechococcus lividus. 857
of tomato leaves affected by Fusarium, gas exchange studies on. 3046
in Ulva lactuca ethanol insoluble fractions. 3401
of unicellular algae under various light conditions, measurement of illumination rate for investigating rate of. 3522
use of transitional processes in Chlorella. 271
**otosynthesis (net)**, in American elm seedlings as influenced by Dutch elm disease and plant-water stress. 7630
**otosynthetic chain**, reaction kinetics of intermediates of. 3403
**otosynthetic electron transfer chain**, of greening in Chlamydomonas reinhardtii y-1 cells, relationship to light harvesting system. 5426
**otosynthetic lamellar system**, in Chlamydomonas reinhardi, preservation of membrane homogeneity during development of. 3201
**Photosynthetic material at 77°K**, restorative effect of warming on the fluorescence intensity and induction of. 5460
**Photosynthetic metabolism** in cells and chloroplasts of Acetabularia mediterranea, sites of. 7325
**Photosynthetic $O_2$ evolution**, in obligate phototrophic blue-green algae cell suspensions, correlation with photoinduced pH changes and after-light respiration. 5424
**Photosynthetic pigments** in chloroplasts of algae, orientation of. 7328
**Photosynthetic products**,
of dry matter from cucumber leaf-discs infected with Corynespora melonis. 6359
localization of in potato leaves infected by Phytophthora infestans. 2317
**Photosynthetic rhythms** in epipelic algal populations. 4201
**Photosynthetic specific activity**, of greening of Chlamydomonas reinhardtii y-1 cells, changes in. 5426
**Photosynthetic sulphate-reduction** in cell-free systems of spinach chloroplasts and Chlorella, enzyme reactions involved in. 4087
**Photosynthetic systems**, magnetic field induced orientation of. 5427
**Photosystem I activity**, light-induced inhibition of respiration in DCMU poisoned Chlorella caused by. 4235
**Photosystems I and II**, interaction of in algal cells. 1829
**Photosystem II**,
absence of in Anabaena heterocysts. 2687
in algae, contribution of to hydrogen photoproduction. 7327
observations on mutants of Scenedesmus. 384
**Phototaxis**,
in Chlamydomonas reinhardtii in homocontinuous culture. 1827
of Euglena, theory of piezoelectric activity and ion-movements in relation to flagellar structures and movements to. 5807
**Phototaxis (oriented)**, in Chlamydomonas, relationship between stimulus intensity and. 3438
**Phototaxis (spectral)**, of planktonic Rotatoria. 4268
**Phototoxicity**, induction in mice by rice cultures of Penicillium viridicatum and exposure to sunlight. 1730
**Phototrophism (obligate)**, in Pandorina morum, acetate metabolism in. 2041
**Phycobiliproteins**, in blue-green alga, subunit structure of. 193
**Phycobilisomes**,
of Porphyridium cruentum, isolation of. 7329
of Synechococcus lividus. 558

**Phycobiont,** in Gonohymenia lichens, relation to blue-green phycobionts. 2472
**Phycobiont (Nostoc),**
of Peltigera canina, frequency of heterocysts in. 3919
in Peltigera canina, nigrogenase activity of. 4144
**C-Phycocyanin,**
from Mastigocladus laminosus, isolation, characterisation and subunit composition of. 2645
from Oscillatoria agardhii, molecular properties of. 4790
from Phormidium luridum, isolation of subunits. 7264
**Phycocyanin complex (ANS),** energy transfer in. 6026
**Phycoerythrin,** from Cryptomonas, characterization of. 3347
**Phycomycosis,**
case of in Chad. 2876
in the horse. 5663
**Phycomycosis (deep Entomophthora),** reported for the first time in the USA. 4993
**Phycomycosis (intracranial),** clinicopathological and radiological study of. 1670
**Phycomycosis (subcutaneous),**
2874
in horses. 2936
**Phyllody,** reaction of wild Carthamus to in Israel. 1765
**Phyllosphere** of rye, effect of pollen on saprophytic mycoflora in. 3793
**Phylogenesis,** significance of photoreactivable sectors of Hansenula. 318
**Phylogeny,** of algae. 4662
**Physical agents,** in vitro activity on Toxoplasma gondii. 895
**Physical properties (bio-),** of Phialophora cinerescens and its host. 4063
**Physiological analysis** of UV-sensitive mutants of Saccharomyces cerevisiae. 5573
**Physiological requirements** of marine phycomycetes. 1509
**Physiological state** of yeasts, relation to sporulation capacity. 3970
**Physiological variation,** in Trypanosoma evansi, potential for in relation to the state of the kinetoplast. 5052
**Physiology,**
of Astrephomene gubernaculifera. 4064
of Candida utilis, effect of pH. 306
of conidial germination in Aspergillus fumigatus. 1923
of Curvularia pallescens. 1356
of Cyanidium caladarium. 108
of Entophlyctis confervae-glomeratae. 3210
of Schizoblastosporion starkeyi-henricii. 3270
of Smittium culisetae. 7443
of Sphaerobolus. 2050
of yeast in batch and continuous culture systems. 940
of yeasts, influence of glucose concentration on. 5470
**Phytoactin,** failure of aerial application of to control hypoxylon canker in aspen. 1110
**Phytoalexin medicarpin,** role of in leaf spot diseases of alfalfa. 6984
**Phytoalexins,**
as mediators of induced resistance to fungal pathogens. 511
production of in Lycopersicum infected with Phytophthora. 4536
production of by plants in relation to pathogen resistance. 527
of soybean, inducer of and its role in resistance of soybeans to Phytophthora. 1097
**Phytochrome participation** in chlorophyll synthesis in Euglena, absence of. 6071
**Phytoene (all-trans-),** in Mucor hiemalis, formation of. 7335
**Phytoene/phytofluene,** in Rhodopseudomonas and Mucor hiemalis, trans isomers of. 3410
**Phytosanitary conditions** of imported origin for Pinus. 6372
**Phytuberin,** accumulation by potato. 1096
**Picea,** distribution of as hosts of Scleroderris lagerbergii in Europe and North America. 6918
**Picea abies,** roots of, as substrate for fungus Fomes annosus. 376
**Picloram,** microbial degradation and phytotoxicity of. 7004
**Piezoelectric activity,** theory of in relation to flagellar structures and their movements to phototaxis of Euglena. 5807
**Pig,**
digestibility and energy value of blight-damaged corn diets for. 1182
effect of blighted corn on performance of during gestation. 3102
effect of feeding corn inoculated with Nigrospora oryzae and Cladosporium on performance of. 3103
effect of feeding Helminthosporium maydis infected corn to. 3833
evaluation of bacterial and yeast preparations as growing rations for. 3105
experimental reproduction of haemorrhagic enteritis in, in France. 7617
fungal nephrotoxicity in. 2410
fungal treated cottonseed meal for. 3101, 3830
Microsporum nanum causing ringworm of in Ontario. 7584
in Queensland, Eimeria in. 1086
relationship of ochratoxin A to foetal death in. 2408
Rhizopus cohnii in mucormycosis of. 7579

**ig, contd.**
  the sporocyst of Isospora hominis in. 4709
  Vahlkampfia lobospinosa in. 4051
**ig (growing-finishing)**, effect of blighted corn on the performance of. 1184
**ig (young)**,
  effect on of consumption of rations containing corn invaded by Fusarium roseum. 3831
  pathological findings in disease similar to vomiting and wasting disease of. 1066
**igeon**, trichomoniasis of. 4508
**igeon (crowned)**, Toxoplasma gondii isolated from. 4531
**igment**,
  of Amanita muscaria. 869
  comparison of in carpophores and saprophytic cultures of Paxillus. 4212
  of Cryptococcus neoformans, formation on polyphenols. 874
  of Cryptococcus neoformans, production of with extracts of Guizotia abyssinica. 875
  from Chrysosporium. 3429
  in Curvularia lycopersici in culture, sterioisomerism and induced production of. 7374
  and different chemical races of Hypoxylon rubiginosum. 24
  in Dunaliella, quantitative content of. 2692
  of Elsinoe. 3413
  of Gnomonia erythrostoma. 3412
  of Petroglossum nicaeense, seasonal variations of at different light intensities. 6074
  of Phaeosaccion collinsii. 4
  of Phormidium. 2428
  of photosystem II of photosynthesis in Anabaena heterocysts, relationship between age of culture and occurrence of. 5423, 6069
  resistance of fungi differing in to $\gamma$-irradiation. 3490
  of Spirulina maxima, chromatographic separation of. 7332
**igment (bikaverin and norbikaverin)**, from Gibberella jujikuroi. 260
**igment (blue)**, production of by Navicula ostrearia maintained in uni-algal culture on synthetic medium deficient in nitric nitrogen. 4843
**igment (chloroplast)**, of Scenedesmus photosystem II mutant, observations on. 384
**igment (leaf)**, changes of in resistant barley infected with powdery mildew. 6332
**igment (naphtha-quinone)**, from Torula herbarum, isolation and characterization of. 848
**igment (photoreceptor)**, of Phycomyces, selection of str for possible biological assay of. 4324
**igment (photoreversible)**, occurrence of in a blue-green alga. 4791
**Pigment (phytoplankton)**, in Porto Novo waters, India. 1494
**Pigment (violet)**, in Claviceps paspali. 278
**Pigment composition**,
  of Anacystis nidulans, changes in induced by iron-deficiency. 3435
  in Euglena gracilis, influence of cell metabolism on during ageing. 2039
**Pigment development**, in Sphaerobolus. 2050
**Pigment extraction**, quantitative comparison of by membrane and glass-fibre filters. 4320
**Pigment metabolite**, produced by Aspergillus. 7308
**Pigment mutations**,
  of Chlamydomonas reinhardtii, fluorescence kinetics of chlorophyll in. 6181
  of Chlamydomonas reinhardtii, genetic analysis of. 2152, 4943
**Pigment production** in Panus tigrinus, physiological aspects of. 6502
**Pigment system**, of Euglena, reactions of under artificially produced heterotrophic conditions. 6087
**Pigment variations** in ultra-violet-treated Anabaena doliolum. 2740
**Pigmentation**,
  in Mortierella ramanniana var. ramanniana M29, effect of changes in the environment on. 2042
  of Rhodotorula aurantiaca modification of by culture in the presence of sulphur amino acids. 6677
**Pigmented microorganisms**, studies on from aphotic marine environments. 4013
**Pigmented protozoa**, destruction of cellular components in by laser microbeam. 6114
**Pika**, Eimeria from. 3937
**Pika (Colorado)**, structure of oocyst and excystation process of Isospora marquardti from. 5900
**Pile-built lake village** of Ganvie, parasitological studies among the population of. 4415
**Pimafucin**, long term treatment of tinea pedis with. 445
**Pimaricin**,
  activity of against Hendersonula toruloidea. 2944
  Fusarium solani keratitis treated with. 7546
  in vitro fungistatic activity of. 913
  in the management of vaginitis. 2254
  Schizosaccharomyces japonicus sensitive to. 909
  in the therapy of mycotic complications in haemoblastosis. 5636
**Pine**,
  resistance in and differences in attack by Scleroderris lagerbergii in. 7673
  study of ectomycorrhizae of. 3805

**Pine (Aleppo),** canker disease of. 3036
**Pine (eastern white),** inoculation test using Peniophora gigantea on stumps of. 2334
**Pine (lodgepole),** association of Dendroctonus ponderosae with blue stain fungi and yeasts during brood development in. 1321
**Pine (longleaf),** breeding of for resistance to brown spot needle blight. 5076
**Pine (Scots),** biodeterioration of in water cooling towers. 543, 544
**Pine (planted slash),** fusiform rust in. 5079, 6928
**Pine (pond),** formation of mycorrhizae in monoxenic culture by. 6386
**Pine (red),** epidemiology of Scleroderris lagerbergii infection in. 6917
**Pine (slash),** in aseptic culture, formation of ectomycorrhizae on half-sib progenies of. 3807
**Pine (southern),** comandra rust on. 4551
**Pine (western white),** influence of blister rust on inorganic solute concentrations in. 4552
**Pine bolts**, effect of bluestain fungus on development of Ips bark beetles in. 5040
**Pine Christmas trees (Scots),** in Wisconsin, brown spot needle blight of. 1114
**Pine Christmas tree plantations (Scots),** Lophodermium pinastri a disease problem in. 2996
**Pine cuttings (eastern white),** fungicide air rooting of. 5105
**Pine hybrids (slash x shortleaf),** Nanism and fusiform-rust resistance in. 3767
**Pine needle blight (extensive southern),** during 1970-1971, fungi associated with. 2327
**Pine nursery seedlings (Scotch),** incidence and control of Lophodermium needle cast. 6912
**Pine plantation (ponderosa),** armillaria root rot in. 2332
**Pine plantation (thinned shortleaf),** 8 years loss from Fomes annosus in. 3001
**Pine seedlings (Jeffrey),** control of Sirococcus tip blight of. 5128
**Pinicolic acid A,** constituent of Heterobasidion tasmanica. 285
**Pink pitting** on grapefruit, cause and control of. 3031
**Pinks,**
  parasitic capacity of Verticillium dahliae with respect to. 4602
  pathogenicity of different isolates of Phialophora cinerescens with respect to. 6973
**Pinocytosis,**
  in Acanthamoeba castellanii, kinetics and morphology of. 6178
  in Chaos chaos, plasma membrane permeability and. 6081
  and locomotion in Amoebae. 3853
**Pinus**, (see also Pine)
  cone infection of by Peridermium harknessii. 6931
  distribution of as hosts of Scleroderris lagerbergii in Europe and North America. 6918
  new Lophodermella on. 7065
  phytosanitary conditions of imported origen for. 6372
  Scleroderris lagerbergii of in New Brunswick, Canada. 5724
  Scleroderris lagerbergii of in central Ontario. 5725
**Pinus elliottii,**
  damping off of. 3052
  Hendersonula causing die-back in. 1780
  Hendersonula as causal agent of plant death in. 3056
  root rot in. 2999
**Pinus monticola**, resistance to Cronartium ribicola in. 504
**Pinus nigra,** Dothistroma pini on. 3038
**Pinus pinaster**, rust fungi on. 7637
**Pinus ponderosa**, effect of infection by Verticicladiella wagenerii on the physiology of. 1149
**Pinus serotina**, formation of mycorrhizae in monoxenic culture by. 6386
**Pinus silvestris**, influence of moss cover on mycorrhisation in. 4626
**Pinus strobus**, susceptibility of healthy and ozone-injured needles of to invasion by Lophodermium pinastri and Aureobasidium pullulans. 6913
**Pinus sylvestris,**
  fungal colonization of fence posts of. 539
  growth inhibition of 2 root pathogenic fungi by volatile organic constituents of ectomycorrhizae root systems of. 6996
**Piper nigrum**, resistance in Piper and other plants to Phytophthora palmivora from. 499
**Piperazine (N,N'-bis-(1-formamido-2,2,2-trichloroethyl)-),** activity and metabolism of. 5508
**Piperazine antibiotics ('3,6-epi-dithiadiketo),** produced by Acrostalagmus cinnabarinus var melinacidinus. 7305
**Piperazine derivative fungicide**, control of brown rot of plum with. 6971
**Pipette filler**, modification of to reduce contamination. 1585
**Pipistrellus pipistrellus**, in Britain, observation on Trypanosoma vespertilionis in. 1075
**Piroplasm**, from Psammomys obesus in the lower Jordan valley. 1257
**Pisatin**, in peas inoculated with Monilinia fructicola, inermin associated with. 4545
**Pisum**, (see also Pea)

**um sativum,**
evaluation of excised root tip method for determining resistance of to Aphanomyces euteiches. 5068
predisposition to pre-emergence mortality in soil. 500
reciprocal effects of with Aspergillaceae in mixed culture. 1781
ultrastructure of mycorrhiza of. 124
**uitary isograft,** in adrenoovariectomized mice, promotion of mammary tumorigenesis in. 4820
**uophis melanoleucus catenifer,** transfer of Heptazoon to. 4518
**yriasis versicolor,**
culture of pityrosporum orbiculare. 1027
in Egypt, studies on. 2895
in Hamburg. 444
incidence in Egypt. 442
localisation of causal agent under the nails and in the skin of the head. 2898
localization of Microsporon furfur under the nails and skin of the head as cause of relapses in. 1672
**centa,** of the guinea-pig, transmission of Toxoplasma gondii across. 6317
**centitis (experimental bovine mycotic),** produced by Aspergillus fumigatus, pathogenesis of. 5042
**nkton,**
artificial alteration of seasonal cycle of in English lake. 643
biohydrodynamic differences of from nekton. 4728
of Calicut inshore waters. 3261
determination of iron, cobalt and titanium microquantities in. 7344
effect of Pulp Mill Water on. 4653
of eutrophic pond during summer stratification, vertical distribution of some ciliated Protozoa in. 7198
as a factor in the nitrogen and phosphorous cycles in the sea. 1314
heterotrophy by in 3 lakes of different productivity. 4934
influence of on antibacterial activity of sea water. 6630
interrelations among, attachment to algae and phosphorus cycle in artificial open systems. 4715
observations on in the approaches and channel zone of Rangiroa Atoll. 4725
productivity of in Alpine lakes. 2527
of the Riveris Reservoir, ecological investigations of. 656
in the sea surface of inlets of Japan. 4730
studies of at Oyster Bay in Jamaica. 4011
of the western tropical Atlantic as related to specific features of the hydrological regime. 5939
**Plankton (blue-green algae),** ecology of in the North Shropshire Meres. 1291
**Plankton (calcareous nanno-),** morphological details of emphasized by interference contrast. 1562
**Plankton (dead freshwater),** nutrient regeneration from. 3570
**Plankton (flagellate nano),** from the coast of Norway, identification of by electron microscopy. 4674
**Plankton (freshwater phyto),** underwater light climate as a controlling factor in the production ecology of. 7155
**Plankton (marine phyto),**
extrusion of carbon accompanying uptake of amino acids by. 3565
uptake and metabolism of DDT by. 4651
utilization of urea by. 7462
vitamin $B_{12}$, thiamine and biotin content of. 7333
**Plankton (Nanno and Net),**
importance of as primary producers in California current system. 2529
importance as primary producer in tropical oceanic and neritic phytoplankton communities. 2536
**Plankton (phyto),**
of Atlantic Ocean south of Guinean Gulf. 3251
and calefaction. 3243
of Danish lakes. 7176
dependence of primary production of on biogenic elements and light. 2078
distribution of between Corse and Barcelona in relation to vertical mining. 6533
distribution of during the early development of Volta Lake. 7169
distribution of in the Ligurian Sea. 4723
distribution of in a polluted saline lake. 5169
dynamics and productivity of in a high mountain lake. 7156
of the ecotone of Antarctic upwelling ecosystem, relative importance of habitat variables in predicting the distribution of. 4005
effect of fertilizers on development of in fry ponds. 6169
energetics of in sewage-treatment lagoons. 3843
in estuarine pearl oyster area, decomposition effluent and deposition of. 1196
of fingerling ponds. 5919
in fingerling ponds, chemical factors and primary production of. 6170
of a fish pond at Ile-Ife, ion transport studies on. 655
of the genus Oscillatoria in lakes of Kanem. 109
growth and composition of in shipboard cultures supplied with nitrate, ammonium or urea as the nitrogen source. 3531

**Plankton (phyto), contd.**
  in high mountain lakes, factors that control the production rate and biomass of. 7165
  immunological method for identification of. 5593
  of inshore and offshore waters off Colombo, studies on and some data on hydrological conditions of the waters. 1308
  in Lake Minnetonka, Minnesota. 6646
  in lakes, optical density profiles as aid to study of microstratified. 924
  in the North Adriatic Sea, quantitative and qualitative distribution of. 1296, 1297
  of the Nova Scotian Shelf. 1295, 7148
  occurrence of at high-latitude. 4713
  oscillatory variation of in a tropical ocean. 4712
  in Peruvian coastal waters. 3241
  photo-inhibition of photosynthesis of as a function of exposure time. 4233
  production and productivity in. 7720
  of the Rivers Thames and Kennet at Reading, quantitative studies on. 1305
  seasonal characteristics of in the Amursky Bay, Sea of Japan. 4006
  seasonal fluctuation of composition, diversity and production in freshwater lake of. 4711
  of the soda lakes of Kanem. 1290
  off the southeastern coast of the USA. 4012
  species and individual productivity in. 2528
  in the standing stock in Lake Balaton and in the highly eutrophic Lake Belso, weekly changes of. 1292
  succession of in eutrophic lakes with special reference to blue-green algal blooms. 5263
  in surface microlayers of equatorial waters. 4729
  toxicity of mercury to. 4882
  use of turbidimetry in studies of population dynamics of populations of. 7142
  of the upper river Vorskla, study of. 6530
  of the Volca Lake. 3246
  of waters polluted by sulphite cellulose factory. 6418
**Plankton (phyto- and zoo-),**
  in inshore waters of Japan. 687
  of lakes of northeastern Norway. 692
**Plankton (Pleistocene calcareous nanno),** of the subantarctic Pacific Ocean. 4046
**Plankton (sedimenting phyto),** influence of physiological conditions of on the decomposition process during sedimentation. 5454
**Plankton (spring phyto),** chemical bases and mechanisms of blooming of in North and Northwest Atlantic. 7173
**Plankton (surface phyto),** relation to the physical-chemical limnology of Lake Texoma. 5920
**Plankton (White Sea phyto-),** study of requirements for elements of mineral nutrition with the method of planned additions. 6165
**Plankton (zoo),**
  of the Danube, position and perspective of research on. 693
  and hydrology of Hauraki Gulf New Zealand. 688
  in the North Sea, changes in the distribution and abundance of. 5301
  of Sargasso Sea, annual cycle in quantity and composition of. 691, 4059
  in situ method for measurement of grazing rates of. 4369
  size selectivity of samplers for. 4341
  diversity of and physiochemical conditions in Keystone Reservoir Oklahoma. 4060
**Plankton abundance (local phyto),** and turbulence. 5281
**Plankton association dynamics (phyto),** knowledge of the biogenic elements and in the Frasinet pond during November 1969-1970. 5278
**Plankton bloom (phyto),** in Venice lagoon. 1299
**Plankton collector (diver-operated).** 5526
**Plankton count** and evaluation. 7426
**Plankton count (zoo),** calculation of error on. 3563
**Plankton counter (automated),** trials with. 6717
**Plankton pigments (phyto)** in Porto Nova waters. 1494
**Plankton populations (phyto),** ordination of in ponds of varying salinity and temperature. 7170
**Plankton production (phyto),**
  influence of experimental increase of biomass of Gloeotrichia echinulata on. 5265
  impact of chlorination of power plants on. 6647
**Plankton production (zoo),** in the sea, laboratory studies related to. 4938
**Plankton pump,** new type of on vacuum principle. 6718
**Plankton sorter (Perspex),** description of. 4319
**Plankton studies,** in Caribbean estuarine environment. 5907
**Plankton studies (phyto),** use of dialysis culture in. 5524
**Planktonic algae,** mineral nutrition of. 7459
**Planktonic desmids** in Windermere, seasonal periodicity of. 7150
**Planktonic foraminifera,**
  differential settling, dissolution and redeposition of. 7193
  in the equatorial and Northern Pacific waters, environmental relationships and distribution of. 1346
  of the type localities 'Mao Adentro Limestone' and 'Mao Clay'. 7195
**Planktonic primary production (phyto),** acrylic

- **Planktonic primary production (phyto), contd.**
  - plastic and Jena glass bottles used in the measurement of by the $^{14}C$ method. 7438
- **Planned additions**, study of White Sea phytoplankton mass forms requirements for elements of mineral nutrition by. 6165
- **Planonts**, production of by thin-walled sporangia of Coelomomyces indicus. 6498
- **Plant**,
  - from Afghanistan, fungi intercepted on. 1957
  - in Gabon, Cercospora of. 1955
  - genetics of disease resistance in. 4604
  - germination of basidiospores of Cronartium comandrae on. 4705
  - significance of ethylene in sterilized soil in studies of interactions between microorganisms and. 3820
- **Plant (alpine)**, occurrence of thecate amoebae in. 681
- **Plant (cultivated)**,
  - diseases of in Greece. 1755
  - reciprocal effects of with Aspergillaceae in mixed culture. 1781
- **Plant (euphorbiaceous)**, rhizosphere fungal flora of. 2399
- **Plant (floating)**, of the middle Parana River islands, thecamoebae from. 1255
- **Plant (green)**, photosynthesis of the electron transport system of. 7331
- **Plant (higher)**,
  - chlorophyll proteins and reaction centre preparations from. 1490
  - fluctuating photosynthetic units in. 1491
  - interspecies aminoacylation of tRNA from. 5944
- **Plant (large field)**, artificial infestation of with Fusarium solani f. sp. pisi. 6962
- **Plant (marine)**, in the Argentine littoral, phytogeographical outline of. 4015
- **Plant (meadow)**, mycotrophy of in relation to the use of fertilisers. 3281
- **Plant (vegetable)**, rhizosphere soil fungi of. 5772
- **Plant age**, effect of on inhibition of Botrytis cinerea spores by bacteria on beetroot leaves. 6101
- **Plant cells**, vital staining of with rifampicin and daunoblastin. 7431
- **Plant disease**,
  - chemotherapy of. 1758
  - control of. 4606
  - correlation between intensity and frequency in. 5078
  - glossary of. 4609
  - of Saudi Arabia. 4612
- **Plant disease (fungal)**, in New Zealand. 5928
- **Plant disease (seed-borne)**, threat from. 3076
- **Plant disease and pests**,
  - forecasts of occurrence of in Poland in 1971. 3073
  - occurrence rate of in Poland in 1970. 3072
- **Plant growth inhibitors** production of by fungi. 4190
- **Plant industry** in Algeria. 6370
- **Plant pathogenic fungi**, production of extracellular hydrolytic enzymes by. 5341
- **Plant pathogens (soil-borne)**, analyses involving inoculum density of. 3809
- **Plant productivity** of a Taiga lake. 7160
- **Plant roots**, behaviour of zoospores of Phytophthora megasperma var. sojae towards. 1271
- **Plant tissue**, rapid method for chemical estimation of filamentous fungi in. 4919
- **Plant tissue (infected)**, peculiarities of protein synthesis in. 5740
- **Plantation (forest)**, effect of mineral fertilisers on microflora of soil types in. 3099
- **Plantations/nurseries**, in Europe and North America, damage caused by Scleroderris in. 6919
- **Planting date**, effect on fatty acid composition of corn oil. 3781
- **Planting material**, influence on oil palm stem rot due to Ganoderma. 1796
- **Plantvax**,
  - control of Ophiobolus graminis by. 5501
  - toxicity of against seed-borne pathogens of maize. 2355
- **Plantvax 1-E**, control of wheat diseases with. 4562
- **Plantvax emulsifiable concentrate**, effect of on stem and crown rusts of oats. 5733
- **Plaque** of teeth of children, incidence of Candida albicans in. 4741
- **Plasma**,
  - of duckling, Mucor divergence in aflatoxin effects with. 1475
  - of human, differentiation of Trypanosoma brucei and T. rhodesiense by. 949
  - of human, fibrinogenic and fibrinolytic activity of Entamoeba histolytica on in vitro. 3342
- **Plasma $C_3$ concentrations** in malarial nephropathy. 2268
- **Plasma-filaments**, in Physarum polycephalum, identification of as F-actin by in situ binding of heavy meromyosin. 2449
- **Plasma membrane permeability** and pinocytosis in Chaos chaos. 6081
- **Plasmalemma**,
  - ion absorption in Chlorella pyrenoidosa. 371
  - of naked swarmers of Cladophora and Chaetomorpha, structure of. 1838
  - in Oocystis, structure of in relation to microfibril biosynthesis. 5185
- **Plasmodesmata** in Ulothrix. 2480, 3203
- **Plasmodia**,
  - of Dictyostelium discoideum, differentiation in. 615

**Plasmodia, contd.**
  of myxomycete, comparison of actin of with muscle actin. 792
  of myxomycete, effect of anaesthetics on the locomotor pressure of. 4849
  of Physarum polycephalum, behaviour of spindle microtubules during nuclear division in. 4701
  in Physarum polycephalum, stimulation of mitosis following fusion of. 5241
  of Physarum polycephalum, subcellular localization of calcium repositories in. 6437
  of Physarum polycephalum, ultrastructure of. 7060
**Plasmodia (UV-irradiated),** of Physarum polycephalum, acceleration of nuclear growth and advanced initiation of mitosis in. 7382
**Plasmodial fusion** between Physarum polycephalum strs, lethal interaction following. 6758
**Plasmodium F-actin,** from myxomycete, cross reaction with muscle native tropomyosin. 4133
**Plastic remodelling** of highly organised chromatophores during cell division and cell organisation of Cocconeis. 6482
**Plasticizers,** effects of on fungal attack of cotton yarn. 7706
**Plastics,**
  on the Sargasso Sea surface. 4019
  Talaromyces emersonii as a possible biodeteriorator of. 1189
**Plastics coating,** effects of on fungal attach of cotton yarn. 7706
**Plastics tubes (pre-sterilized disposable screw-cap),** maintenance of fungal cultures in. 3556
**Plastid formation,** in Euglena gracilis, variations in the amount of free glucide during. 2481
**Plastids,**
  of Closterium acerosum, ultrastructure of. 565
  derivation of from prokaryotic microorganisms. 5498
  of Euglena, effects of streptomycin on the ultrastructure of. 6692
  origin of and phylogeny of algae. 4662
**Plastoquinone A,**
  from Synechococcus lividus, kinetics of in relation to changes in response to light intensity. 7349
  in Synechococcus lividus, qualitative and quantitative study of. 4806
**Plate tests,** comparison of chemically induced reversion patterns of Salmonella typhimurium and Saccharomyces cerevisiae mutants using. 4385
**Platelets,** role in passively transferred endotoxin resistance. 2212
**Platypezidae,** attacking Agaricales in Hungary, systematic and ecological studies on. 6546
**Pleistocene calcareous nannoplankton** of the subantarctic Pacific Ocean. 4046
**Pleistocene paleotemperate oscillations (late),** definition of by silicoflagellate changes in a subantarctic deep-sea core. 5295
**Pleura,**
  aspergilloma of. 1676
  local treatment of aspergillomas of. 5612
**Pleural effusion** secondary to pulmonary cryptococcosis. 4456
**Pliocene,** planktonic foraminifera of. 7195
**Plodia interpunctella,** inflammatory response of to infection by Nosema heterosporum. 7605
**Plum,** control of brown rot of with new piperazine derivative fungicide. 6971
**Plusia orichalcea,** parasites of in India. 5044
**Plutonium,**
  inside giant brown algae. 6416
  in lichen communities of the Thule, Greenland. 2419
**Pneumocystosis (human),** life cycle of Pneumocystis in. 5895
**Pneumonia** in old people. 5618
**Pneumonia (acute),** in tropical infections. 4484
**Pneumonia (Aspergillus),** mechanical control of hospital ventilation in relation to. 3596
**Pneumonia (atypical interstitial),** in cattle fed mouldy sweet potatoes. 3699
**Pneumonia (fulminating fatal),** blastomycosis causing. 5616
**Pneumonia (massive Aspergillus).** 5607
**Pneumonia (mycotic),** in a cat. 5656
**Pneumonia (pneumocystis),**
  in adults. 7575
  and disseminated histoplasmosis in association with Hodgkin's disease. 7576
**Pneumonia (Pneumocystis carinii),**
  combined with leukaemia, two autopsy cases and literature review. 1053
  in the course of childhood leukaemias. 3686
  problems in diagnosis and therapy of. 6854
  Eosinophilia with immunodeficiency syndromes and. 4492
  radiographic findings in. 6283
  percutaneous lung biopsy and literature review. 1719
**Pneumonia (recurrent Pneumocystis carinii),** following apparent recovery. 4491
**Pneumonitis,** caused by hypersensitivity. 2228
**Pneumonitis (mycotic),** in a bull. 463
**Pneumopathy (allergic interstitial),** immunological and epidemiological study of. 6776
**Pneumopathy (infectious),** study of bacterial flora obtained by tracheal puncture in. 4441
Po, trophic interrelations in. 7689

**Poa pratensis,**
  control of Ustilago striiformis and Urocystis agropyri in by 2,5-dimethyl-3-furylanilide. 5089
  effect of infection with Ustilago striiformis var. poae and Urocystis agropyri. 3020
  infected by smut and rust pathogens, chemotherapy of by thiazole compound. 3021
  effect of sugar content of on Helminthosporium leaf spot of. 6964
**Pod,**
  of cacao, anatomical study of in relation to Phytophthora palmivora attack. 7624
  of cacao, behaviour towards Phytophthora palmivora in the Ivory Coast, role of environment in. 2319
**Pod blight** of soybean. 1778
**Pogonias cromis,** Henneguya from. 4053
**Pokeweed mitogen,** effects of on mouse peritoneal macrophages. 7389
**Poland,**
  control of apple scab, bitter rot and sawfly in. 2330
  diseases, pests and weeds recorded on agricultural products during importation to. 3115
  effectiveness of benomyl and other chemicals for control of leaf disease on black currant in. 2997
  forecasts of occurrence of main pests and diseases of plants in in 1971. 3073
  list of Testacea from the Duszatynskie Lakes in. 1343
  occurrence rate of main plant diseases and pests in in 1970. 3072
  productivity investigations of two types of meadows in the Vistula valley in. 1171
**olar filament-polaroplast complex,** in a microsporidian parasite, development of. 5899
**olarizability (photo),** of Equisetum spores and Fucus eggs. 3957
**olaroplast,** of Thelohania bracteata frozen-etched spores, fine structure of. 7089
**olioencephalomacia** and fungi, failure to demonstrate thiamine destruction in. 6873
**oliomyelitis,** work of the World Health Organisation in. 2848
**ollen,**
  effect of on the fungal leaf microflora of Beta vulgaris and on infection of leaves by Phoma betae. 6554
  effect of on saprophytic mycoflora in phyllosphere of rye. 3793
  relationship to asthma in asthmatic children in Carpathian basin. 4403
**ollen (air-borne),** patterns of in Birmingham Alabama. 7715
**Pollen diagrams,** relation to vegetational succession fungal spores and short-term cycles of from Wietmarscher Moor. 1807
**Pollutants (cellulose residues),** action on aquatic invertebrates. 548
**Pollutants (industrial),** preliminary investigations on as substrate for microorganisms. 4655
**Pollutants (oil),** microbial degradation of. 5803
**Polluted estuary,** benthic algae in. 7020
**Polluted stream,** distribution of biota in. 4652
**Polluted and unpolluted environments,** Euglenineae from. 5270
**Pollution,**
  effect on Fucus virsoides. 3447
  effect on plants in flowing waters. 5170
  of the Great Lakes. 7713
  hydrobiological study of in the River Lieve. 3844
  of kelp forests in North Sea, ecological studies of. 3117
  mapping of lichen frequencies as tool in evaluating intensity of. 4657
  in Puerto Rican bays, relationships between foraminifers and. 6421
  in relation to phytoplankton in estuarine pearl oyster area. 1196
  value of fungi as indicators of. 4656
  of waters by sulphite cellulose factory, phytoplankton in relation to. 6418
  yeast as indicator of. 547
**Pollution (atmospheric),** study of effect of sulphite on lichens with reference to. 1823
**Pollution (urban),** histoplasmosis as new type of. 5016
**Pollution (water),** tissue culture bioassay method for. 6159
**Pollution monitoring (water),** coherent optical spatial filtering of diatoms in. 4650
**Polonium** inside giant brown algae. 6416
**Poltava district conditions,** infection of peavine with fungal diseases under. 6353
**Poly I:Poly C,**
  effects of on an acute ocular infection produced by intracameral inoculation of Toxoplasma gondii. 1092
  immunosuppressive properties of and effect on toxicity of $\alpha$-amanitin and hexobarbital. 2940
**Polyacetylene compound (antifungal),** from Phytophthora-infected safflower. 1095
**Polyacrylamide gel disc electrophoresis** of alkaline proteinases from Aspergillus. 1988
**Polyamine,**
  in Neurospora crassa mycelia, level of. 141
  wheat stem rust uredosporeling content of. 203
**Polyaromatic synthetic catabolic pathway** in Neurospora crassa, genetical and biochemical evidence for interrelationship with quinate-shikimate catabolic pathways. 7478

**Polycations**, effect on Trypanosoma brucei brucei. 6139
**Polychaete**,
  in Cystoseira-communities of the North Adriatic. 1307
  development of Pleistophora in the eggs of. 106
**Polygalacturonase**, of Fusarium oxysporum f. sp. lycopersici. 6008
**Polyene antibiotics**,
  development of resistance by Candida to. 1549
  in yeast, new loci for resistance to. 1631
**Polyene antibiotics** (antifungal), reversal by calcium ions of the growth inhibition of Debaryomyces nicotianae caused by. 6693
**Polyene resistance** and the isolation of sterol mutants in Saccharomyces cerevisiae. 7483
**Polyester sponge swabs**, examination for genital infection in women with. 431
**Polygonum plebejum**, as a new host of Melonopsichium nepalense. 7636
**Polyinosinic: polycytidylic acid**,
  effect on experimental fungus infection. 3697
  influence of on experimental acute toxoplastic retinochoroiditis in rabbits. 5065
**Polymerase (DNA)**,
  in some species of algae, activity of. 7218
  from Tetrahymena pyriformis, activity of. 1427
**Polymerase (DNA-dependent)**, from Tetrahymena pyriformis. 4127
**Polymerase (DNA-dependent RNA)**,
  of Anacystis nidulans, subunit composition of. 2580
  from Tetrahymena pyriformis. 4127, 7261
  from yeast, partial characterization. 1400
  from yeast, purification and properties of. 7229
**Polymerase (mitochondrial DNA directed RNA)**, from Saccharomyces cerevisiae mitochondria. 1368
**Polymerase (multiple RNA)**, of yeast, separation and properties of. 6199
**Polymerase (rifampicin-resistant RNA)**, from mitochondria of yeast, Neurospora and liver, isolation of. 7223
**Polymerase (RNA)**,
  of amoeba nuclei, isolation and determination of activity of. 1426
  binding of and denaturation at the ends of the low molecular weight DNA in Stylonychia. 6578
  effect of $\alpha$-amanitin in vivo on. 6632
**Polymerase (soluble RNA)**, changes in associated with germination of Rhizopus stolonifer spores. 5972
**Polymerase I (DNA-dependent RNA)**, of Achlya bi-sexualis, Cycloheximide inhibition of. 3449
**Polymerase B (yeast RNA)**, purification of. 3330
**Polymerase activity (DNA-dependent RNA)**, from isolated yeast nuclei, characteristics of. 2602
**Polymerase activity (RNA)**, associated with virus from Penicillium stoloniferum. 1789
**Polymerase inhibiting drugs** (RNA), depressed incorporation of purine derivatives into malarial parasite RNA by. 4900
**Polymeric flocculants (synthetic)**, flocculation of algae with. 4904
**Polymorphism**,
  in Cyclotella cryptica, relation of salinity to. 295
  of micronuclei of Paramecium caudatum. 2185, 6577
**Polymorphism (esterase)**, of Saccharomyces cerevisiae, genetics of. 6197
**Polymorphism (micronuclear)**, of Paramecium bursaria. 6772
**Polymorphonuclear leucocyte locomotion**, effect of cytochalasin B on. 7314
**Polymyxin**, securing SPF-mice by decontamination with. 917
**Polymyxin** B,
  antifungal properties of and its potentiation of tetracycline as antifungal agent. 6697
  inhibitory effect of on phospholipases. 7410
**Polyol function** in Aspergillus clavatus, study of. 3364
**Polyoxin** D, inhibition of Mucor rouxii by. 6129
**Polypeptide**,
  Chlamydomonas reinhardtii chloroplast membranes, evidence for synthesis in cytoplasm as soluble components. 1996
  of Neurospora crassa cytochrome oxidase cycloheximide resistant incorporation of amino acids into. 198
**Polypeptide (arginine-rich)**, in saline extract of Chlorella pyrenoidosa-$^{14}C$. 6614
**Polypeptide (membrane)**, association of with photochemical systems. 6030
**Polyploid Candida scottii**, frequency of formation of induced auxotrophic mutants determined in. 6685
**Polyploid Saccharomyces cerevisiae**, mitotic segregation in. 6200
**Polyploid yeasts**, analysis of segregation in of Peterhof genetic strs. 2174
**Polyploidy** of micronucleus in Ciliophora as a characteristic of the sp. 4952
**Polyran**, control of corn blight by. 1154
**Polysaccharide**,
  of brown algae, molecule fragmentation of sargassan and pelvetian. 811
  brown algae, Smiths degradation of sargassan and pelvetian. 812
  of Candida cell walls, chemical composition of. 2013

**olysaccharide, contd.**
  from Chlorococcum ellipsoideum and Chlamydomonas globosa. 5940
  from Cochliobolus miyabeanus cell walls, chemical structure of. 222
  of Entamoeba histolytica trophozoites, comparative study of in monoxenic and axenic culture. 3367
  examination of in the cells of wheat parasitized by Puccinia graminis. 6344
  in Hypnea musciformis, chemical composition and seasonal variability of. 1451
  interaction of with haemagglutinins of mycetes. 7370
  of Laingia pacifica. 6042
  liberation of by Chlorella pyrenoidosa during growth and cell division. 3345
  metabolized by Fucus vesiculosus during pulse labelling experiments, incorporation of $^{14}$C into. 4200
  of Phaeosaccion collinsii. 4
  from Phaeocystis poucheti, production of. 3357
  of Rhizopus nigricans, studies on. 1454
  of Stereocaulon paschale, structure of. 2018
  of Tribonema aequale, low molecular weight and. 7277
  of yeasts, monosaccharide composition of extracellular and capsule. 227
  of yellow Rhodotorula. 818
**olysaccharide (acidic),**
  from cell wall of Chlorella pyrenoidosa. 4151
  from the cell wall of Rhizopus nigricans. 4156
  interferon inducing activity of. 4157
**olysaccharide ($^{14}$C),** metabolism and distribution of from Candida tropicalis in organs and tissues of mice. 5782
**olysaccharide (capsular),** of Porphyridium, incorporation of sulphate into. 7281
**olysaccharide (cell wall),**
  of fungi, enzymes causing hydrolysis of. 2632
  from Fusicoccum amygdali, characterisation of. 2665
  in yeast, correlation between the accumulation of and certain high-molecular polyphosphate fractions. 5388
**olysaccharide (cryptococcal capsular),** immunological unresponsiveness induced by assayed by haemolytic plaque technique. 6234
**olysaccharide (extracellular),**
  from Anabaena flos-aquae, effect of various nitrogen sources on production of. 369
  of black yeast, composition of. 819
  in Fucus distichus, immunocytochemical localization of. 5387
  from Gomphonema olivaceum. 2656
  from Porphyridium aerugineum, production of. 4799
  utilization of carbon sources by Pullularia pullulans for the elaboration of. 961
**Polysaccharide (gum),** from apricot, structural properties of. 6360
**Polysaccharide (mannose-containing microbial),** decomposition and binding action in soil of. 6380
**Polysaccharide (neutral),** of Fomes annosus fruit bodies. 4160
**Polysaccharide (pullulan),** of Pullularia pullulans, role of pH and nitrogen limitation in the elaboration of. 816
**Polysaccharide (soluble),**
  from Cryptococcus neoformans, immune response. 2860
  of Rhodotorula flava. 6047
**Polysaccharide (starch-type),**
  from Haematococcus pluvialis and Tetraselmis carteriiformis, molecular structure of. 5386
  from Hericium molecular structure of. 1458
**Polysaccharide (virus inhibiting),** of Phytophthora infestans, characterization of. 795
**Polysaccharide (wheat dough),** fermentation of by pressed and liquid yeast. 1456
**Polysaccharide changes,** in the cell walls of hypocotyls of melon infected with Colletotrichum lagenarium, kinetic study of. 3776
**Polysaccharide degrading enzymes,** of Fusarium oxysporum f. sp. lycopersici, studies on. 6008
**Polyurethane covered plates,** submerged in the sea, marine fungi on. 1335
**Polyurethane foam,** colonisation and succession of freshwater protozoans in. 2559
**Pond (trasinet),** primary planktonic production in before and after stocking with grass carp. 1315
**Pond (Tsurumine Hachimanguu),** periodicity of Zygnemataceae in. 6491
**Ponds,**
  of varying salinity and temperature, ordination of phytoplankton populations in. 7170
  in wooded areas in lower Austria, rare diatoms from. 2517
**Ponds (brown-water),** in Lower Austrian woodland region, comparative studies of. 3255
**Ponds (eutrophic),**
  effects of saprobic conditions on some ciliated Protozoa in the benthos and hypolimnion of. 1353
  grazing by Loxodes magnus on Scenedesmus in. 4368
  vertical distribution of some ciliated Protozoa in the plankton of during summer stratification. 7198

- **Ponds (fingerling)**,
  - Ciliata in bottom sediments of. 6393
  - chemical factors and primary production of phytoplankton in. 6170
  - phytoplankton of. 5919
- **Ponds (fish)**, in India, studies on freshwater plankton of. 3236
- **Ponds (freshwater)**, in India, ecological studies in the plankton of. 3239
- **Ponds (fry)**, effect of fertilizers on phytoplankton development in. 6169
- **Ponds (Louisiana)**, incidence of Coelomomyces in larval populations of mosquito in. 5651
- **Ponds (simulated)**, effects of chemicals on spores of Myxosoma cerebralis in vitro and of calcium oxide as a disinfectant in. 3734
- **Ponds (small)**, North Carolina, colonisation and succession of fresh-water protozoans in polyurethane foam suspended in. 2559
- **Ponds (tropical)**, ecosystem study of in relation to primary production of different vegetational zones. 2535
- **Ponds (winter)**, occurrence of nonspecific ciliates on carps in. 5299
- **Pony**,
  - endogenous development of Eimeria leuckarti in. 4514
  - Klossiella equi from. 7134
- **Pool (microbial and rumination)**, evidence of in continuously fed sheep. 1352
- **'Pool' constituents**, envoronment mediated changes in the cellular content of and their associated changes in cell physiology. 5374
- **Pool (neogenic)**, of Csakvar, diatoms of the Lower Pannon arising from. 3995
- **Poplar**, blue-stain of. 541
- **Poplar (yellow)**, in South Carolina, incidence of Fusarium canker of. 6961
- **Populus tremula**, aromatic substances in leaves of as inhibitors of mycorrhizal fungi. 1795
- **Porcupine (long tailed)**, Eimeria from. 58
- **Pore (doli)**, of Basidiomycetes. 3155
- **Pore (germinal sporal)**, in Tuber. 3154
- **Pore (germinative)**, of Panaeolus, morphological and ontogenical research on. 4680
- **Pore (micro-)**, in Eimeria alabamensis, ingestion of host-cell ctyoplasm by. 2138
- **Pore cap (septal)**, in Coprinus stercorarius, fine structure of. 7070
- **Pork (infected)**, transmission of Toxoplasma gondii to cats via ingestion of. 2975
- **Porphyria cutanea tarda**, treatment of. 1697
- **Porphyrin (Zn-proto-)**, in yeast cells, effect of accumulation on synthesis and respiration. 288
- **Porphyrin luminescence** in Candida cells. 4219
- **Port-Cross Island**, marine vegetation of. 1945
- **Porto Novo waters**, phytoplankton pigments in. 1494
- **Positive pressure gradient theory**, of pseudopod extension and retraction in Amoebae, direct test of. 2422
- **Post-natal infections**, general foundations of specific defence in. 4460
- **Potassium**,
  - effect on uptake of amino acids by actidione-treated yeast cell. 6094
  - incidence of brown rust in transplanted wheat as affected by. 5083
  - in Phycomyces blakesleeanus mycelium, mechanism of translocation of. 2696
  - in Phycomyces blakesleeanus sporangiophore, electrical mobility of. 2694
  - in Phycomyces blakesleeanus sporangiophores, mechanism of translocation of. 2695
  - in Platymonas viridis cultivated on water from different seas, content of. 7354
  - translocation of across the mitochondrial membrane of respiring and respiration-deficient yeasts. 2047
  - uptake of by the developing Phycomyces blakesleeanus developing sporangiophore. 2697
- **Potassium azide**,
  - control of Cylindrocladium floridanum with. 3090
  - efficacy of for control of Rhizoctonia solani and Verticillium wilt of potato. 6979
  - effect of post-emergence application of on nematode populations and development of Sclerotium rolfsii in a peanut field. 6982
  - fungicidal activity of as affected by pH. 3092
- **Potassium azide-ammonia solutions**, Fusarium foot rot of wheat and peas as influenced by. 4586
- **Potassium-calcium equilibrium** and chemotactic sensitivity in Stentor coeruleus. 6113
- **Potassium chloride**, disruption of amino acid transport mutant of Neurospora crassa by. 3457
- **Potassium fertilizers**, effect on rhizosphere mycoflora of Oryza sativa. 1804
- **Potassium iodate**, effect on sclerotium formation in Sclerotium. 1285
- **Potassium ion uptake**, by yeast, effect of diffusible acids on. 1496
- **Potassium relationships** of Enteromorpha intestinalis. 4203
- **Potassium tellurite**, selection of Candida albicans through the reduction of. 4333
- **Potassium uptake**,
  - in fungi, effect of triterpeneglycosides on. 3500
  - of guard cells stimulated by fusicoccin. 4185
- **Potato**,
  - bacterial seed-piece decay and blackleg of. 7665
  - effect of annual soil fumigation and pre-harvest

**Potato, contd.**
- vine burning on Verticillium wilt of. 7675
- effect of 1,3-dichloropropene in combination of 1,3-dichloropropene + chloropicrin on infection of by Verticillium albo-atrum. 2398
- effect of fungicides on black scurf of. 4597
- effect of temperature on viability of Macrophomina phaseoli from. 307
- efficacy of potassium azide for control of Rhizoctonia solani and Verticillium wilt of. 6979
- evaluation of inoculation methods for screening of. 6733
- high-yielding and resistant to verticillium wilt and leaf roll. 1784
- infection of with Phoma exigua. 3786
- infected with Verticillium, transpiration in. 525
- lacking R genes, stability of resistance to Phytophthora infestans in. 2980
- method for estimating loss in tuber yield caused by late blight of. 3749
- occurrence of Ulocladium consortiale as an associate fungus of Alternaria solani in tuber blight of. 6985
- protein and esterase of Streptomyces from. 215
- quantitative relationship between late blight of and loss in tuber yield. 4538
- reaction of to Alternaria solani. 4566
- resistant to blight in Mexico. 495
- screening of for field resistance. 5739
- specificity of rishitin and phytuberin accumulation by. 1096
- study of Phoma exigua populations in the field in. 4594
- studies on Sclerotium rolfsii isolates from. 3064
- varietal susceptibility to gangrene caused by Phoma exigua var foveata, laboratory assessment of. 358

**Potato (moldy sweet)**, atypical interstitial pneumonia in cattle after feeding with. 3699

**Potato (sweet),**
- control of black rot of with fungicide dips at various temperatures. 1104
- control of soft rot in cut root pieces of with 2,6-dichloro-4-nitroaniline. 2991
- relationship of inoculum density and soil types to severity of Fusarium wilt of. 1140

**Potato (tuber)**, changes after wounding and infection with Phytophthora infestans. 496

**Potato blight**, control of with aryltin compounds. 2749

**Potato blight (late),**
- effect of aparatus on control of. 2981
- survey of estimation of losses caused by. 3074

**Potato dextrose agar**, as fungal culture media, comparison with cassava and yam. 349

**Potato disease (common)**, in India. 5759

**Potato gangrene**. 7672, 7704

**Potato leaves,**
- effect of fungicides on microflora of. 7621
- infected by Phytophthora infestans,
  - localization of photosynthetic products in. 2317
- reaction of to infection by Phytophthora infestans in relation to position on plant. 2316

**Potato planting microclimate**, effect of on Phytophthora infestans. 4537

**Potato scurf (sweet)**, effects of fungicide dips at various temperatures on the occurrence of. 5118

**Potato seed treatment (sweet)**, TBZ for. 4607

**Potato seed treatment fungicide (sweet)**, evaluation of thiabendazole as. 5075

**Potato starch (sweet)**, hydrolysis of by fungal enzymes. 4114

**Potato tubers,**
- effect of temperature of on incidence of mechanical damage during grading and of gangrene during storage. 3839
- inoculated with Phoma exigua var. foveata, effects of temperature on the development of gangrene in. 2064

**Potato tuber resistance** to Phytophthora infestans, characteristics of expression and inheritance of. 5712

**Potency calculation** from colony count, inhibition and exhibition zone measurements, Quantimet 720P for. 5548

**Potential (resting)**, effect of light on in vacuole sap of Nitella. 2060

**Power plants**, impact of chlorination on phytoplankton production in. 6647

**Practitioners**, survey participation by in relation to establishing endemic boundaries of North American blastomycosis. 4955

**Praomys natalensis,**
- Eimeria from. 2294
- transmission of Eimeria chinchillae to. 479

**Pratylenchus brachyurus**, influence of on the incidence of Fusarium wilt in cotton. 5107

**Pratylenchus penetrans,**
- effect of on resistance of pea to Fusarium wilt. 2360
- interaction with Fusarium oxysporum forma pisi race 2 on peas. 3048

**Precipitins,**
- due to Aspergillus fumigatus, allergy to. 3630
- of Candida, distribution and significance of in sera from pregnant women. 6790
- of Histoplasma capsulatum, conditions for assay of. 995
- of Histoplasma capsulatum, separation and characterization of. 996
- of serological variants of Trypanosoma

- **Precipitins, contd.**
  - evansi. 5602
  - in serums from sheep infected with Aspergillus fumigatus. 6230
- **Precipitins (Candida)**, demonstration of in human sera by counterimmunoelectrophoresis. 2861
- **Precipitins (human)**,
  - against Candida albicans, demonstration of by quantitative immunoelectrophoresis. 2857
  - against Candida albicans, modified antigen-antibody crossed electrophoresis for characterization of specificity and titre of. 3610
- **Precursors (labelled)**, incorporation into triglycerides at selected stages of fungal growth. 4168
- **Predator-prey interaction** of Dictyostelium discoideum and Escherichia coli in continuous culture. 6147
- **Pregnancy**,
  - Candida vaginitis during. 4399
  - complication by African histoplasmosis in. 2236
  - distribution and significance of Candida precipitins in sera in. 6790
  - successful treatment of trypanosomiasis in. 1037
- **Pregnane series**, hydroxylation of substances of with Coniosporium rhizophilum. 7298
- **5$\beta$-Pregnane-3,11-20-trione**, stereochemistry of C-1,2 dehydrogenation of by Septomyxa affinis. 3376, 4176
- **Preharvest fungicide treatments** for increasing yield and controlling pre- and post-harvest fruit decay of strawberry. 6947
- **Prenols (poly)**, of Aspergillus niger, characterization, biosynthesis and subcellular distribution of. 3366
- **Preservation**,
  - of Babesia bigemina, dimethyl sulphoxide at low-temperature for. 1582
  - of food, ecological essentials of. 7011
  - of microorganisms. 7452
- **Preservation (freeze)**, of pathogenic amoebae and trichomonads. 4266
- **Preservation (steeping)**, of Agaricus bisporus. 7693
- **Preservative**,
  - influence of on spore swelling of Aspergillus niger and Trichoderma viride. 7372
  - for pharmaceutical and cosmetic preparations, rapid screening of. 1574
- **Preservatives (wood)**, effectiveness of organotin and organolead against decay and soft rot fungi. 1190
- **Prey-predator interaction** of Dictyostelium discoideum and Escherichia coli in continuous culture. 6147
- **Primaquine**,
  - cardiopulmonary effects of. 4526
  - effect on uptake and incorporation of macromolecular precursors by Tetrahymena pyriformis. 3519
  - fine structure of sporogonic stages of Plasmodium berghei following exposure to. 2310
- **Primarektal cream**, treatment of ano-rectal symptom complexes with. 3637
- **Primordium formation (light-induced)**, in Favolus arcularius, action spectrum for. 3971
- **Procainhydrochloride**, determination of with Hematococcus pluvialis. 905
- **Proctoscopy**, in acute intestinal amoebiasis. 456
- **Procyon lotor**, Eimeria procyonis from. 6312
- **Production** and productivity in phytoplankton. 7720
- **Production (primary)**,
  - and chlorophyll in near-shore zone of the Barents Sea. 7330
  - dependence of on physical and chemical factors in a small senescing lake. 4009
  - seasonal variation of dissolved organic carbon in the inshore waters of the Menai Strait in relation to. 4357
- **Production ecology** of freshwater phytoplankton, underwater light climate as a controlling factor in. 7155
- **Production rate** of phytoplankton in high mountain lakes, factors controlling. 7165
- **Production values (primary)**, dependence of on different factors in the northeastern part of the Caribbean Sea. 6089
- **Productivity**,
  - of microorganisms. 6425
  - of Paramecium caudatum, effect of medium flow rate on. 5486
  - of some unicellular algae in laboratory culture. 6712
- **Productivity (animal)**, relation to microbial diseases. 6323
- **Productivity (microbial)**,
  - in the ocean, limits of. 6398
  - in soil. 6388
- **Productivity (plant)**, and microbial diseases. 6368
- **Productivity (potential)**, of freshwater samples from tests with algae, estimation of. 7102
- **Progesterone**,
  - effect on dermatophytes. 916
  - inhibition by microbial steroid D-ring lactonization by high levels of. 6059
  - microbial 11$\beta$-hydroxylation of. 3431
  - side chain degradation and 20-($\alpha$+ $\beta$)-reduction of by cell free preparation of Penicillium lilacinum. 7250
  - in vitro transformation of by Rhizopus nigricans. 4209
- **Programic divisions**, of 4 morphological types of

**Programic divisions, contd.**
    Paramecium caudatum, comparative analysis of nuclear reorganization during. 2185
**Prokaryotes,**
  characteristic metabolic patterns of. 1434
  photosynthesis in. 1489
  similarity between tRNAs of and organelles. 2567
**Prokaryotic algae** associated with Australian proterozoic stromatolites. 7144
**Prokaryotic microorganisms**, derivation of plastids from. 5498
**Proliferation**, of animals, role of symbiotic bacteria in Pelomyxa palustris in. 1287
**Proline**, in Saccharomyces chevalieri, effect of temperature on transport of. 202
**L-Proline** in the culture of Leishmania tarentolae. 1600
**Promastigotes**, of Leishmania tropica, mobility of in an electric field. 5481
**Pronase-P (commercial)**, from Streptomyces griseus, polyacrylamide gel electrophoresis of. 780
**Propagation ability**, independence of in irradiated cellular slime-moulds. 4700
**Propagules** of Pyrenophora trichostoma. 7122
**Propanil**, effect on Chlorella pyrenoidosa growth. 5496
**Propanol**, decrease of glycogen and trehalose in yeast during starvation and during ethanol formation under the influence of. 6045
**Propham**, effect on Chlorella pyrenoidosa growth. 5496
**Prophylactic antibiotic therapy**. 6830
**Prophylaxis (chemo)**, against surra, studies on. 6305
**-Propiolactone**, effect on saprophyte microorganisms. 4264
**Propionitrile (2,2-diphenyl-3-(1-pyrrolidino)**, microbial conversion of. 3355
**-Propylthiouracil-induced hypothyroidism** in mice experimentally infected with Trypanosoma cruzi, effect of. 6304
**Prostatic biocenosis**, ecological relations of Trichomonas vaginalis in. 2552, 2553
**Prostatitis**, Trichomonas vaginalis in. 677
**Prostatitis (cryptococcal)**, in sarcoidosis, response to 5-fluorocytosine. 6825
**Prostatis (non-gonococcal)**, association of threads in the urine with. 2907
**Prostitutes (venereally infected)**, studies on. 5027
**Protease,**
  activity of in rectal fluid of primitive attine ants. 1425
  in Aspergillus oryzae, culture media, minimum number of. 1411
  from Aspergillus oryzae and A. flavus, comparative study of properties of. 1412
  of Endothia parasitica, activity assay for using trypsinogen as substrate. 5973
  of Endothiaparasitica, hydrolysis of peptide bonds of the oxidized B-chain of insulin by. 4097
  of Microsporum canis, localization and secretion of. 1422
  from mold, hydrolysis of native collagen by. 2623
  of Mucor miehei, structure and functional determinants of. 5970
  in Nocardia, production of. 779
  from Rhizopus, isolation of. 3316
  Scopulariopsis brevicaulis, purification and properties of. 766
  from Streptomyces griseus, properties of crystalline complex of. 781
  of Streptomyces griseus, studies of heterogeneity of. 780
  use of for improved presentation of DNA in chromosomes and chloroplasts of Prorocentrum micans. 1563
  from yeast, extracellular production of. 3335
**Protease (acid),**
  from Rhizopus chinensis, Aspergillus saitoi, Mucor pusillus, and calf renin, inactivation of by diazoacetylnorleucine methyl ester. 3454
  from Rhizopus chinensis, crystallization and preliminary crystallographic data for. 726
**Protease (acid and alkaline)**, in Coprinus, function of in autolysis. 1405
**Protease (alkaline),**
  from Acremonium kiliense. 1407
  from Acremonium kiliense, properties of in solutions of urea and sodium dodecylsulphate. 6001
  from Acremonium kiliense, specificity, kinetics and effect of pH on. 6002
  of Aspergillus flavus, biochemical and immunological properties of. 3333
  from Aspergillus flavus, stability of. 2619
  from Aspergillus oryzae, esterase activity of. 5348
**Protease (exocellular)**, regulation of in Neurospora crassa. 5980
**Protease (extracellular),**
  in Aspergillus nidulans, ammonium repression of. 6100
  distribution of yeasts producing. 7220
  of yeast, identification and production of. 7252
**Protease (extracellular acid)**, produced by Aspergillus niger. 4112
**Protease (fibrinolytically active)**, from Aspergillus ochraceus, isolation and properties of. 173
**Protease (milk-clotting)**, from Mucor pusillus, substrate specificity of determined on the oxidized B-chain of insulin. 1976

**Protease (serine)**, from microorganisms, kinetics of. 1413
**Protease A**, of Streptomyces griseus, the peptic peptides of. 807
**Protein**,
  behaviour of acetyl groups combined with sulphydryl groups in. 2637, 2638
  from Chlorococcum ellipsoideum and Chlamydomonas globosa. 5940
  composition of spores and mycelium of Verticillium. 214
  effect of hydroxylamine on the growth and synthesis of in Aspergillus niger mycelium. 6173
  in Entamoeba histolytica, cytochemical comparison with distribution of in axenic vs. monoxenic growth. 2005
  in fodder yeast cultivated with different carbon and nitrogen sources, content and digestibility of. 4363
  isolation of Chlamydomonas reinhardi mutants defective in synthesis of. 194
  isolation method of from single cell by impact-cell-mill. 4328, 4329, 4911
  of laver, relationship between chemical constituents in environmental factors. 791
  of Neurospora crassa, $NH_2$ terminal residues of. 199, 1436
  of Microcystis aeruginosa gas vacuole, characterization of. 1428
  pattern of incorporation of labelled carbon into during yeast cultivation on hydrocarbons. 7273
  from Streptomyces from Maine potatoes, electrophoretic patterns of. 215
  of Strigomonas oncopelti flagella, studies of. 4125
  of Tetrahymena pyriformis oral apparatus, synthesis of. 637
  utilization of in the medium as nutrients for yeast cells. 1590
  of Verticillium agaricinum, effect of light on. 1528
  of Volvariella diplasia, essential amino acid composition of. 4793
  of yeast, food vehicle for. 7695
**Protein (actin-like)**, from Dictyostelium discoideum. 6033
**Protein (actin-like nuclear)**, of Physarum polycephalum, synthesis and properties of. 793
**Protein (ade12-specified)**,
  confirmation of bifunctional nature in yeast. 391
  of yeasts, allelic variability in comparative complementation confirming the bifunctional nature of. 1615
**Protein (bili)**,
  of algae, comparative immunology of. 1997
  of Fremyella diplosiphon, properties of subunits and aggregates of. 787
**Protein (C-reactive)**,
  enhancement of catalase activity in subcellular fractions of Tetrahymena pyriformis collowing addition of. 1994
  in Gambian Africans with special reference to Plasmodium falciparum malaria. 2202
**Protein (cellulosic glyco)**, from Pleurochrysis scherffelii scales, characterization of. 6029
**Protein** (chlorophyll), and reaction centre preparations from photosynthetic bacteria, algae and higher plants. 1490
**Protein (chloroplast)**,
  in Acetabularia, nuclear dependency of. 3343
  of Scenedesmus photosystem II mutants, observations on. 384
**Protein (chromo-)**, from Anabaena cylindrica, ascorbate photooxidation by. 2688
**Protein (chromosomal)**, in Gyrodinium cohnii. 4792
**Protein (cytoplasmic)**, of Neurospora crassa, resemblance to membrane proteins. 796
**Protein (flavo)**, from Chlorella, characterization of. 789
**Protein (glyco)**, of Candida albicans, seizure induction by pentylenetetrazol in rodents receiving. 1481
**Protein (isotope hybrid algal flavo)**, extraction and purification of. 4129
**Protein (insoluble)**, from wild-type and mi-1 Neurospora crassa, comparison of cystein and tryptophan content of. 4135
**Protein (Marquis wheat grain)**, effect of rust infection on. 2342
**Protein (membrane)**, of Neurospora crassa, a cytoplasmic protein resembling. 796
**Protein (microbial)**, effect of growth conditions on fractional composition of. 803
**Protein (microtubule)**,
  from Tetrahymena colia, heterogeneity of. 1447
  in Tetrahymena pyriformis, properties of. 809
  in Tetrahymena pyriformis, synthesis and assembly of. 810
**Protein (mitochondrial)**, in Neurospora crassa, in vivo synthesis, molecular weights and proportions of. 2000
**Protein (mitochondrial membrane)**, in Saccharomyces cerevisiae, fate of during petite induction. 970
**Protein (mitochondrial ribosomal)**, in Neurospora crassa, intracellular site of synthesis of. 6617
**Protein (nuclear acidic)**, in Physarum polycephalu changes of during differentiation. 1998
**Protein (phycobili)**, in blue-green alga, subunits structure of. 193

**Protein (pyrenoid),** of Eremosphaera viridis, isolation and partial characterization of. 1839, 2647

**Protein (ribosomal),** from Dictyostelium discoideum, method for extraction of with calcium chloride-urea mixture. 1565

**Protein (80S and 70S ribosomal),** differences in size and number of. 3346

**Protein (serum),**
  - patterns of in experimental candidiasis. 465
  - patterns in mice following primary and challenge infection with Plasmodium berghei. 1084

**Protein (serum glyco),** characterisation and pathophysiology of alterations of in malaria. 2932

**Protein (single cell),**
  - hydrocarbons as source of. 6177
  - new source of. 6395

**Protein (soluble),**
  - of Chlorella vulgaris, changes in depending on various conditions of carbohydrate nutrition. 5368
  - of Schizosaccharomyces, synthesis of during cell cycle. 1440
  - in Spirulina, antigen-antibody crossed electrophoresis of. 6028

**Protein (soybean),** action of peptidases from Aspergillus oryzae in digestion of. 5349

**Protein (special),** in Tetrahymena pyriformis, accumulation of in the induction of synchronous roundings. 2007

**Protein (specific mitochondrial),** in Paramecium aurelia, new method for studying the genetic control of. 6214

**Protein (thyroxine binding),** relationship with free thyroxine and thyroxine turnover during acute infectious illness in man. 7574

**Protein (uredospore wall),** of wheat stem rust, localisation and enzymatic activities of. 2651

**Protein (wall glyco),** in normal and mutant cells, electrophoretic analyses of. 7265

**Protein (water-soluble),** of Candida tropicalis, study of by elution chromatography. 4140

**Protein biosynthesis,** in Tetrahymena pyriformis, nuclear pore complexes as controlling system in. 5317

**Protein calorie malnutrition** in mice infected with Plasmodium berghei yoelii. 7610

**Protein chain initiation** by methionyl tRNA in Neurospora cytoplasm. 2570

**rotein changes,**
  - in the haemolymph of Galleria mellonella larvae infected with virus and protozoan pathogens. 4519
  - in the vascular wilt disease of lucerne caused by Verticillium alboatrum. 6987

**rotein complex (lipo),** of envelopes of yeast grown in media with different carbon sources, study of. 4171

**Protein concentrations** during Plasmodium berghei infection. 4523

**Protein constituents** of cell walls of dimorphic phases of Blastomyces dermatididis. 6620

**Protein content,** of some tropical marine algae. 5463

**Protein content (total),** in the haemogregarine-infected erythrocytes of rock-lizards, shifts in. 7602

**Protein denaturants,** activation of yeast pro-proteinase C by. 7231

**Protein disulphide groups,** in Aspergillus oryzae $\alpha$-amylase, papain and lysozyme, reaction of with Ellman's reagent. 1442

**Protein double wave (polarographic),** of Scenedesmus quadricauda, effect of mineral nutrition on the height of. 5555

**Protein enzymes (glyco),** inhibition by 2-deoxy-D-glucose of synthesis of by protoplasts of Saccharomyces. 7234

**Protein fluorescence** of nicotinamide nucleotide-dependent dehydrogenases. 5978

**Protein fractions,** of Candida tropicalis, kinetics of during ontogenesis. 1443

**Protein fractions (insoluble),** of Saccharomyces cerevisiae mitochondria, characterization of. 3351

**Protein fractions (water-soluble and water-insoluble),** in Tetrahymena pyriformis, changes of in synchronous rounding. 2006

**Protein level,** allelic interactions at. 3586

**Protein metabolizing enzymes** in Dictyostelium discoideum, partial characterization of. 4766

**Protein products** for rearing larval Tephritidae. 7691

**Protein quality** of freshwater algae. 2648

**Protein-subunit aggregation model** for self-incompatibility in Schizophyllum commune. 4950

**Protein synthesis,**
  - in Acetabularia development, control of. 801
  - in Achyla, $Ca^{2+}$ as specific regulator of. 6615
  - during Allomyces arbuscula diploid life cycle. 6034
  - alterations of Golgi apparatus of amebae in the presence of an inhibitor of. 1530
  - in Blastocladiella emersonii, relation to structural changes in zoospore germination. 1913
  - of Chlamydomonas reinhardi y-1 mutant cells, inhibition of during greening. 3344
  - effect of inhibition on hyphal wall synthesis in Aspergillus nidulans. 94
  - effect of inhibitors of on the secretion of carbohydratous trapping slime of Drosophyllum lusitanicum. 4848

- **Protein synthesis, contd.**
  - in vitro with Tetrahymena mitochondrial ribosomes. 3356
  - induction in cyst coat of Colpoda steinii. 218
  - in infected plant tissues, peculiarities of. 5740
  - isolation of yeast mitochondrial ribosomes highly active in. 805
  - in Physarum polycephalum, control of DNA replication by. 702
  - in prefission morphogenesis of Paramecium aurelia, role of. 1288
  - in Saccharomyces cerevisiae, search for mutants uncoupled in. 2164
  - in unsaturated fatty acid mutant of Saccharomyces cerevisiae, effect of unsaturated fatty acids on the development of. 5575
  - in yeast, role of in liquid holding recovery. 7383
- **Protein synthesis (concomitant),** in synchronous cultures of Chlorella, dissociation of nuclear DNA replication from. 4752
- **Protein synthesis (continuous),** in yeast, dependence of RNA synthesis on. 3299
- **Protein synthesis (cytoplasmic and mitochondrial),** in anaerobic cultures of Saccharomyces cerevisiae, effect of lipid status on. 7268
- **Protein synthesis (differential),** in Physarum polycephalum differentiation, lack of synthesis of G-6-PD. 5968
- **Protein synthesis (promitochondrial),** effect of oxygen on. 4248
- **Protein synthesis inhibitors,**
  - decreased formation of Golgi bodies in amoebae in the presence of. 2080
  - effect on fertilisation of Volvox carteri. 2742, 3445
- **Protein value** of yeast grown on petroleum hydrocarbon by supplementation with DL-methionine, improvement of. 2151
- **Proteinase,**
  - of Aspergillus oryzae, electrophoretic and immunoelectrophoretic study of. 752
  - of Aspergillus sojae mutants, hyperproduction of. 174
  - of Aspergillus terricola, optimization of the composition and concentration of components of the growth medium for biosynthesis of. 6670
- **Proteinase (acid),** selection of Aspergillus fumaricus producing. 1541
- **Proteinase (alkaline),**
  - of Aspergillus. 4110
  - from Aspergillus, polyacrylamide gel disc electrophoresis of. 1988
  - from Aspergillus flavus, electrophoretic studies of. 7241
  - of Aspergillus flavus, reinvestigation of molecular weight of. 6004
  - from Aspergillus sojae, calcium bound to and enzyme stability of. 756
  - from Aspergillus sojae, induction of elastolytic activity into. 1415
  - from Aspergillus sojae mutants and wild type, comparison of. 175
- **Proteinase (neutral),** from microorganisms, specificity with oligopeptides. 777
- **Proteinase (pepsin-like),** from Aspergillus awamori. 4108
- **Proteinase (serine),** from microorganisms, comparative study of. 1986
- **Proteinase I and II (neutral),** of Aspergillus sojae enzymatic properties of. 5350
- **Proteinase C,** of yeast, action of on synthetic-peptides and poly-$\alpha$, L-amino acids. 6015
- **Proteinase C (pro-),**
  - of yeast, activation of by protein denaturants. 7231
  - of yeast, activation by yeast proteinase A and the activation mechanism. 7232
- **Proteinosis (pulmonary alveolar),** and pulmonary cryptococcosis in an adolescent boy. 4453
- **Proteolytic enzymes,** from Penicillium lilacinum studies on with respect to their fibrinolytic activity. 6607
- **Proteolytic organisms,** enumeration of in food. 7697
- **Prothidium,** ultrastructural study of effect on trypanosomes. 1556
- **Protodestruxin,** from Metarrhizium anisopliae, isolation and structure of. 7274
- **Protohaem,**
  - of Saccharomyces cerevisiae, inhibitory effects of exogenous glucose on biosynthesi of. 2723
  - from Saccharomyces cerevisiae, influence of glucose on respiratory adaptation of synthesis of. 7336
- **Protohaem synthesis** by Saccharomyces cerevisiae. 3354
- **Proton pump activity,** in greening Chlamydomona reinhardtii, development of as measured with an open-cell preparation. 4834
- **Proton relaxation** and kinetic studies of ternary complexes of an allosteric pyruvate kinase from yeast. 7255
- **Proton-relaxation-enhancement studies** on the binding to yeast pyruvate kinase of a substrate and effectors. 7230
- **Protons,** translocation of across the mitochondria membrane of respiring and respiration-deficient yeasts. 2047
- **Protoplasmic differentiation (extensive fibrillar),** and significance in protoplasmic streaming. 2449
- **Protoplasmic incompatibility,** involvement of proteolytic enzymes in. 1981
- **Protoplasmic streaming** in Nitella, estimation

- **rotoplasmic streaming, contd.**
  - of motive force for. 4659
- **rotoplast,**
  - in algae, production of by physical process. 3442
  - of Anacystis nidulans, assimilation of nucleic acid precursors by. 698
  - of Aspergillus nidulans, regeneration of. 3223
  - Candida macedoniensis, formation of. 635
  - of Chlamydomonas, first division of in the course of asexual reproduction. 6485
  - of Geotrichum candida, formation of. 592
  - from Geotrichum lactis, preparation of and use of fluorescence to detect cell walls. 7449
  - of Histoplasma capsulatum, regeneration of. 7123
  - in Histoplasma capsulatum yeast phase, induction of by magnesium sulphate and 2-deoxy-D-glucose. 2720
  - of Saccharomyces cerevisiae, secretion of p-glucanase by. 5335
  - of Saccharomyces, inhibition by 2-deoxy-D-glucose of synthesis of glycoprotein enzymes by. 7234
  - of Saccharomyces, relationship between yield of and growth phase. 5248
  - of Schizosaccharomyces octosporus, induction by magnesium sulphate and 2-deoxy-D-glucose. 305
  - of Schizosaccharomyces octosporus, induction of by magnesium sulphate and 2-deoxy-D-glucose. 3465
  - of Schizosaccharomyces pombe, Golgi apparatus in. 5202
  - spontaneous formation of by Entomophthora. 7108
  - of yeast, isolation conditions for cell nuclei. 26
  - of yeast, method for obtaining using lytic preparation from Streptomyces. 1555
- **rotoplast formation**, of Histoplasma capsulatum, kinetic and morphological observations on. 5252
- **rotoplast membranes** of Saccharomyces cerevisiae, influence of carcinogenic carbides on the lipid structure of. 4291
- **rotothecium**, of Cochliobolus heterostrophus, formation of. 7111
- **rotothecosis,**
  - 2222
  - of humans. 2221
  - of the skin. 2220
- **rototrophs**, of Aspergillus nidulans, differential effects of nystation on growth of. 333
- **rumycin**, a new antifungal antibiotic. 5510
- **sammomys obesus,**
  - a new piroplasm from in the lower Jordan valley. 1257
  - Nuttallia meri from in lower Jordan valley. 2311
- **Pseudomonads (soil)**, effect on Phytophthora cinnamomi sporangium production. 3083
- **Pseudopod,**
  - in Amoebae, direct test of positive pressure gradient theory of extension and retraction of. 2422
  - in Lesquereusia spiralis, observations on. 56
- **Pseudotsuga menziesii,**
  - provision of nutritional requirements for growth of Cronartium ribicola by. 375
  - synthesis experiments with. 1164
- **Pseudouridylic acid**, chemical modification of in tRNA 1 from Torulopsis utilis with radioactive carbodiimide. 5954
- **Psilocybin**, from Mexican fungi, action on the building of spiders' webs. 2027
- **Psoriasis**, treatment of. 1697
- **Ptiloglossa guinnae**, biology of in relation to associated bees, mites and yeasts. 4633
- **Ptilosarcus gurneyi**, Desmarestia associated with. 2526
- **Puberulic acid**, biosynthesis of. 5445
- **Puberulonic acid**, biosynthesis of. 5445
- **Puerto Rican bays**, relationships between foraminifers and pollution in. 6421
- **Puerto Rican children**, serological and epidemiological study of toxoplasmosis in. 4434
- **Puerto Rico,**
  - bioluminescence and phytoplankton successions in Bahia Fosforescente in. 2525
  - heat tolerance of reef algae at La Parguera in. 7358
  - high incidence of skin candidiasis, skin geotrichosis and tinea versicolor in. 6775
  - marine algal balls in. 7099
  - Phytophthora foot rot of black pepper in. 4540
- **Pullulan**, of Pullularia pullulans, role of pH and nitrogen limitation in the elaboration of. 816
- **Pullulan elaboration** in Pullularia pullulans. 3360
- **Pullulanase (bacterial)**, comparison of action of yeast isoamylase with on amylopectin. 1992
- **Pulp Mill Water**, effect on Plankton and productivity. 4653
- **Pulse labelling experiments**, incorporation of $^{14}C$ into polysaccharides metabolized by Fucus vesiculosus during. 4200
- **Pulses**, aflatoxin in. 5161
- **Pulvinic acid derivatives**, formation of by Hygrophoropsis aurantiaca. 2702
- **Pumping system (ATP-sensitive $Ca^{2+}$)**, in amoebae, demonstration of. 7343
- **Punched data cards (marginal)**, use of in surveillance of hospital-acquired infections. 4335
- **Purification (self)**, algae of the biofilter biological film and their role in the process of. 2531

**Purine,**
  metabolism of by Entodinium simplex. 5567
  in Plasmodium berghei nucleic acids, in vitro incorporation of derivatives of. 145
  uptake and incorporation of by wild-type and mutant Saccharomyces cerevisiae. 4137
  variability of resistant alleles in the aza-1 locus of Neurospora crassa with respect to excretion of. 2828
**Purine (exogenous),** action on biosynthesis and transformations of purine nucleotides in yeast. 1370
**Purine biosynthesis,** role of in flavinogenesis of Candida guilliermondii. 5381
**Purine catabolism (blocked),** mutants of Candida guilliermondii with and their flavinogenic activity. 1630
**Purine derivatives,**
  depressed incorporation of into malarial parasite RNA by known RNA polymerase-inhibiting drugs. 4900
  of Schizosaccharomyces pombe, utilization and interconversions of. 800
**Purine metabolism** in Candida guilliermondii. 5380
**Purine synthesis,** in Saccharomyces cerevisiae, identification of mutants defective in. 967
**Puromycin,**
  metabolism of by yeast cells. 200
  morphogenic modifications induced by on Micrasterias fimbriata during the course of budding. 6117
**Purple stain** of soybean seed. 1778
**Pustule,** stimulation of germination of uredospores of stem rust of wheat in by n-nonanal and related compounds. 4254
**Pusule,** of Gymnodinium, ultrastructure of. 6474
**Pycnidiospore formation,** of Diplodia natalensis and Botryodiplodia theobromae, effects of carbon nitrogen ratio on. 3467
**Pycnidium,** of Diplodia natalensis and Botryodiplodia theobromae, effects of carbon nitrogen ratio on. 3467
**Pycnium type,** in Uredinales, generic disposition and. 1875
**Pneumothorax (pyo),** fistulized into the tuberculosed bronchi, medical treatment of followed by rapid invasive aspergillosis. 3635
**Pyrenees,** micromycetes collected in. 1325
**Pyrenees (eastern),** Tulostoma in. 5923
**Pyrenoid,**
  of brown algae, survey of distribution on. 1209
  of Closterium acerosum, ultrastructure of. 566
  of Vaucheria woroniniana. 3863
  of Zygnema, isolation of by bulk-isolation methods. 2769, 3525
**Pyrenoid protein,** of Eremosphaera viridis, isolation and partial characterization of. 1839
**Pyridines (substituted),** microbial degradation and phytotoxicity of. 7004
**Pyridoquinolines,** coronary vascular effects of. 5062
**Pyridoxal enzymes** from yeast and rat, comparative studies on inactivating enzymes for. 4121
**Pyridoxine,** removal of ferrous ions by N,N'-EDTA in microbiological assay of. 4912
**Pyrimethamine,**
  activity of on zoites and cyst development to Toxoplasma gondii in mice. 5708
  effect on Plasmodium gallinaceum oocysts. 2107
  malaria resistant to. 1715
  peripheral leucocyte counts during long term administration of. 4487
  as treatment for acute Plasmodium falciparum malaria. 6844
  treatment of Plasmodium falciparum infections in a semi-immune population in northern Nigeria. 6280
**Pyrimethamine-primaquine,** response of drug-resistant Plasmodium falciparum to. 7568
**Pyrimethamine-sulphalene mixtures,** potentiating action of against drug-resistant Plasmodium berghei. 3514
**Pyrimethamine + sulphametopyrazine,** treatment of Plasmodium falciparum malaria in Cameroon with single dose of. 2266
**Pyrimethamine-sulphur methoxine,** attempts at malaria prophylaxis by monthly absorption of. 6845
**Pyrimidine,**
  metabolism of by Entodinium simplex. 5567
  of Toxoplasma DNA, incorporation into. 149
**Pyrimidine (4-aminopyrazolo 3, 4-d),** uptake and incorporation of purines by wild-type Saccharomyces and a mutant resistant to. 4137
**Pyrimidine (2,4-diamino-6-[(benzyl)amino]pyrido [2,3-d]),** antimalarial and antimetabolite effects of. 7423
**Pyrimidine (ethyleneimino),** mutagenic effect in Aspergillus nidulans. 2743
**Pyrimidine (6-hydroxy-2,4,5-triamino),** formation of in rib$_7$ mutants of Saccharomyces cerevisiae. 2831
**Pyrimidine (5-nitro),** synthesis and antimicrobial properties of. 4902
**Pyrimidine auxotrophs** in yeasts, direct selective techniques for isolation of. 4330
**Pyrimidine clusters** in DNA of some fungi. 4758
**Pyrimidine derivatives,** problems in the development of. 5133
**Pyrimidine dimers,** from DNA of UV irradiated yeast, excision of. 1965
**Pyrimidine dimers (UV light-induced),** in Saccharomyces cerevisiae, methods for the assay of. 5947

- **Pyrimidine dimer damage** induced in yeast by UV light, repair of. 4277
- **Pyrimidine-3 mutants (bifunctionally defective non-polar)**, of Neurospora, restoration of a single enzyme function in. 4946
- **Pyrimidine precursors**, of Toxoplasma DNA, incorporation into. 149
- **Pyrimidine ribonucleotide synthesis**, in Tetrahymena pyriformis, role of uridine-cytidine kinase in regulation of. 786
- **Pyrimidine tracts** of mitochondrial DNA. 4074
- **Pyrimidine tract analysis** of mitochondrial DNA from a 'low-density' petite mutant of yeast. 7211
- **Pyrolaceae**, phylogeny and ecology of. 2400
- **Pyrophosphatase (inorganic)**,
  - from baker's yeast, kinetic model for action of. 4101
  - from yeast, kinetic study of the activation of by magnesium. 3329
  - from yeast, purification and amino acid composition. 737
  - from yeast, subunit structure of. 5985
- **Pyrophosphatase (nucleotide)**, from yeast, purification and properties of. 5337
- **Pyrophosphatase activity (inorganic)**, in yeast, effect of SH reagents on. 3459
- **Pyrophosphate (dimethylallyl)**, and L-tryptophan, in Claviceps, formation of L-dimethylallyl-tryptophan. 161
- **Pyrophosphate (thiamine)**, spectral studies of the recombination of yeast pyruvate decarboxylase with. 2639
- **Pyrophosphorylase (orotidine-5'-phosphate)**, from bakers yeast, purification and properties of. 771
- **Pyrophosphorylase (NAD)**, in Physarum polycephalum, specific activity of in isolated nuclei during cell cycle. 1974
- **Pyrophosphorylase (UDP-glucose)**,
  - activity of in Dictyostelium discoideum in axenic culture. 3310
  - in Dictyostelium discoideum, 6-Phosphogluconate dehydrogenase and the assay of. 3309
  - synthesis of during development of Dictyostelium discoideum. 1972
- **Pyruvic acid ketal**, occurrence of in glucan from Microsporum quinckeanum. 6624
- **Pyrrhosoma nymphula**, effect of Gregarines on. 3733
- **Pyruvate**,
  - of aerobic yeasts, rhythmic changes of. 867
  - in Scenedesmus quadricauda, pathway of assimilation of. 1449
  - tissue utilization in pantothenate deficient mice, study using Trypanosoma duttoni. 472
- **Pyruvate (acyl)**, as potential antifungal agents. 4294
- **Pyruvate (phosphoenol)**, in the biosynthesis of threonine in Crithidia fasciculata. 4145
- **Pyruvate decarboxylase**, of yeast, heterogeneity of hydrophobic structures of. 182
- **Pyruvate kinase**,
  - from Coprinus lagopus, factors affecting level and activity of. 171
  - in Mucor rouxii mycelium, new form. 158
  - in Saccharomyces cerevisiae, regulation of during glyconeogenesis. 734
- **Pyruvate-ferredoxin oxidoreductase**, in Anabaena variabilis, activation by ATP. 151

## Q

- **Quail (Japanese)**, Eimeria uzura from. 2556
- **Quadriplegic**, Candida peritonitis in. 4451
- **Quantimet 720P** for routine biological assay and potency calculation from colony count, inhibition and exhibition zone measurements. 5548
- **Quaternary planktonic Foraminifera** of the Atlantic Ocean, Paleoclimatic reconstructions based on. 3254
- **Quercetinase**, of Aspergillus flavus, studies on specificity, inhibition and possible reaction mechanisms of. 6602
- **Quercus**, effect of cuticular waxes of on the infection rate of pathogenic fungi. 6665
- **Quercus alba**, inhibition of wood-rotting fungi by ellagitannins in the heartwood of. 7404
- **Quercus velutina**, interaction of Cronartium with. 1118
- **Questinol**, from Chrysosporium. 3429
- **Quinacrine**,
  - cardiopulmonary effects of. 4526
  - effect on uptake and incorporation of macromolecular precursors by Tetrahymena pyriformis. 3519
- **Quinapyramine methylsulphate**, ultrastructural study of effect on trypanosomes. 1556
- **Quinate-shikimate catabolic pathway** in Neurospora crassa, genetical and biochemical evidence for interrelationship with polyaromatic synthetic catabolic pathway. 7478
- **Quinic acid catabolism**, in Neurospora crassa, constitutive mutants of. 387
- **Quinidine (dihydro)**, antimalarial activity in mice infected with Plasmodium berghei. 483

**Quinine,**
as drug adulterant, relation to malaria transmission. 3608
effect on Tetrahymena pyriformis. 1561
effect on uptake and incorporation of macromolecular precursors by Tetrahymena pyriformis. 3519
inhibition of host cell penetration by eimerian sporozoites in vitro with. 1559
inhibition of host cell penetration by Toxoplasma gondii, Besnoitia jellisoni and Sarcocystis with. 7424
**Quinol (1-0-methyl-2-demethyl-phytylphasto),** in Euglena gracilis, occurrence of. 3404
**Quinoline (di-iodohydroxy),** in vitro activity on isolated strs of Entamoeba histolytica. 343
**Quinoline (styryl),** effect on Trypanosoma evansi in rats. 2094
**Quinoline amino alcohols (2,3-trimethylene-4),** antimalarial action of. 3516
**Quinoline drugs (4-amino),** Plasmodium falciparum malaria in Panama resistant to. 4482
**Quinolinemethanols,** production of as antimalarials. 920
2-**Quinolinemethanols,** as antimalarials. 6140
**Quinolinemethanols (2-phenyl-6-and 8 and 8-phenyl-4),** antimalarial action of. 3517
8-**Quinolinols (substituted),** secondary mechanisms of antifungal action of. 3509
**Quinone (alkylamino- and alkyl-aminomethyl-5, 8-quinoline),** synthesis of as inhibitors of coenzyme Q and as antimalarials. 2963
**Quinone (dihydro),** antimalarial activity in mice infected with Plasmodium berghei. 483
**Quinone (2,5-dimethoxybenzo),** from Lenzites thermophila. 6633
**Quinone (perylene),** from Elsinoe, synthesis of. 3413
**Quinone (5,8-quinoline),** synthesis of as inhibitors of coenzyme Q and as antimalarials. 2966
**Quinone precursors** of ubiquinones in fungi, intracellular distribution of. 2698
**Quinoxaline,** as antimalarial. 4310
**Quintozene,**
action on sclerotinia of red clover. 1760
for preventing clubroot of cauliflower in loam and peat soils. 3085
resistance of spores of Botrytis cinerea resistant to. 912
use of for seed treatments. 3071

# R

**Rabbit,**
active and passive immunity in experimental toxoplasmosis in. 1668
acute focal glomerulonephritis in induced by injection of Saccharomyces cerevisiae. 6859
autoimmunity in experimental Trypanosoma congolense infections of. 4976
basement membrane in hepatic coccidiosis of. 3730
cell mediated hypersensitivity in after infection with Trypanosoma. 1660
chemotherapy of experimental Toxoplasma gondii infection in. 1091
development of first- and second-generation schizonts of Eimeria magna from. 2505
effect of feeding Helminthosporium maydis infected corn to. 3833
effect of interferon inducer on acute ocular infection by intracameral inoculation of Toxoplasma gondii in. 1092
effect of hydrocortisone on skin lesions, antibody titres and parasitemia in after Trypanosoma gambiense infection. 5053
effect of magnetic fields associated with electromagnetic waves on trypanosomic orchitis in. 5676
effect of trypanosomiasis on development of experimental allergic neuritis in. 471
efficacy of monensin or amprolium in the prevention of hepatic coccidiosis in. 6886
experimental fungal contamination of the conjunctiva of. 3705
immunized with Toxoplasma antigen, pattern of hemogram in. 2872
infected with Trypanosoma congolense, tests for antibody and cell mediated hypersensitivity to trypanosome antigens in. 6799
influence of polyinosinic-polycytidylic acid complex on experimental acute toxoplasmic retinochoroiditis in. 5065
Microsporum gypseum dermatophytosis in. 1723
nosematosis and toxoplasmosis in. 1751
relationship of ochratoxin A to foetal death in. 2408
tricuspid and aortic valve infection with Candida albicans in. 6863
**Rabbit (domestic),**
antibody titres following experimental Toxoplasma infections in. 7520

**Rabbit (domestic), contd.**
  bibliography of diseases of. 2950
**Rabbit (wild),** Coccidiosis in. 685
**Rabbit coccidia,** survival of oocysts of under conditions of the south Ukraine. 5153
**Rabbit dung,** Coprophilous ascomycetes on. 3086
**Rabbit eye,** effects of toxoplasma gondii toxin on. 4529
**Rabbit lymphocytes,** stimulation of in vitro by a protozoan factor. 2056
**Rabbit serum interferon,** induction of by Hansenula phosphomannans. 4157
**Rabies,** work of the World Health Organisation in. 2848
**Racemes,** of Macadamia, epidemiology of Botrytis blight of. 5093
**Racoon,** Trichophyton mentagrophytes infection in. 1731
**Raccoon (American),** Eimeria procyonis from. 6312
**Radiation,** (see Irradiation)
**Radioactive sediment,** effect on conidiophores and mycelium of some Hyphomycetes. 2069
**Radioactive substance,** apparatus for continuous measurement of active uptake of. 6144
**Radiobiological reactions** of amoebae with small amounts of chromosomes. 2746
**Radiochemical determination** of the unique sequence around the reactive serine residue of a di-isopropyl phosphorofluoridate-sensitive plant carboxypeptidase and a yeast peptidase. 5991
**Radiographic findings** in Pneumocystis carinii pneumonia. 6283
**Radiography (auto),**
  of blood forms of Trypanosoma musculi. 6688
  sliding-chamber phytoplankton settling technique for making permanent quantitative slides with applications in. 6713
  study of hyphal growth of some fungi by. 618
  as tool in primary production research. 7432
  of Trypanosoma kinetoplasts, studies of ultra-structure by. 1254
**Radiography (electron microscopic auto),**
  of RNA synthesis in yeast nucleus. 4068
  of tritiated uridine in Saccharomyces. 3898
**Radiography (high-resolution auto),** of malarial parasites treated with $^3$H-chloroquine. 5519
**Radioisotopic methods,** for the measurement of vitamin $B_{12}$ in serum. 2770
**Radiology,** in hepatic amoebiasis. 455
**Radionuclide distribution (fallout),** in Lichen communities near Thule. 3846
**Radiophosphorus,** incorporated into DNA, body resistance of Pullularia pullulans to the lethal effect of decay of. 2092
**Radioprotection,** of endotoxin, use of Trypanosoma equiperdum test in. 362
**Radiorace,** of Saccharomyces ellipsoideus vini, formation of. 4876
**Radiosensitive yeast mutants (conditional lethal),** isolation and genetical and radiobiological characteristics of. 3585
**Radiosensitivity,** in Saccharomyces cerevisiae, spontaneous reversion frequencies of. 968
**Radiotracer technique** for estimating assimilation efficiencies of aquatic, primary consumers. 4312
**Radish root (downy mildew-infected Japanese),** nature of lignin obtained from. 5711
**Radish root (Japanese),** infected by Peronospora parasitica, microspectrophotometric walls of. 2977
**Raja radiata,** developmental stages of Haemogregarina delagei in. 6889
**Raman scattering intensities,** structural changes in tRNA from changes in. 7212
**Ramification** and hyperramification of the mycelium of certain phycomycetes. 3450
**Rana pipiens,** simple method for removal of protozoan parasites from larvae of. 1068
**Raphanus sativus root** infected by Peronospora parasitica, microspectrophotometric walls of. 2977
**Rash (napkin)**
  alimentary Candida albicans and. 5622
  Candida albicans infection in relation to. 4398
  skin flora of infants with. 1681
**Raspberry bud death** and lateral wilt. 7661
**Raspberry lateral wilt** associated with Fusarium avenaceum. 5106
**Rat,**
  comparative studies on the inactivating enzymes for pyridoxal enzymes from yeast and. 4121
  duration of immune state to Trypanosoma lewisi in. 4512
  effect of betamethasone on Babesia infections in. 1741
  effect of chemicals against Trypanosoma evansi in. 2094
  effect of feeding corn inoculated with Nigrospora oryzae and Cladosporium on performance of. 3103
  effect of feeding Helminthosporium maydis infected corn to. 3833
  effect of inoculation of vegetative myxamoebae of cellular slime molds in. 1721
  effects on of mycotoxin produced by Rhizoctonia leguminicola isolated from red clover forage. 4189
  effects with pathogenic and non-pathogenic trypanosomes, comparative metabolic activity of brain slices of. 6306
  elimination of biliary aflatoxin $B_1$ by. 838
  endocrine reaction of to parasitic infections. 6876
  feeding and multigeneration study in with yeast grown on gas oil. 2409

**Rat, contd.**
- host and parasite interactions during single and concurrent infections with Eimeria nieschulzi and Eimeria separata in. 4515
- immunity to Plasmodium berghei in. 2869
- immunized with irradiated Babesia rodhaini, antigenic variation demonstrated by. 1007
- infected with Plasmodium berghei, cytodynamic study of immune response to sheep erythrocytes in. 3621
- infected with Plasmodium berghei, effect of antithymocyte serum on. 2302
- infected with Plasmodium berghei, effect of splenectomy on specific and non-specific immunity during malaria in. 6802
- influence of type of diet on Trypanosoma brucei infection in. 7592
- loss of feedback control of cholesterol synthesis in the precancerous liver of during treatment with N-2-fluorenylacetamide and aflatoxin. 7309
- lysosomal localization of β-fructo-furanosidase-containing liposomes injected into. 7242
- mutation induction in Neurospora crassa incubated in. 6187
- nosematosis and toxoplasmosis in. 1751
- oestrogenic activity of Fusarium graminearum on. 4499
- parasitised by Plasmodium, relation to erythrocyte morphology. 5064
- prevention of development of pre-erythrocytic malaria in the ethionine fatty liver in. 5697
- relationship of ochratoxin A to foetal death in. 2408
- seizure induction by pentylenetetrazol in, after oral Candida albicans glycoprotein. 1481
- specificity of Eimeria contorta to. 2297
- sporozoite-induced oral route Plasmodium berghei infections. 1085
- toxicity and excretion of ochratoxin A after intubation with pure ochratoxin A or fed cultures of Penicillium viridicatum. 2282
- transferance of immunity to Plasmodium berghei with spleen cells of. 426
- virulence of Entamoeba histolytica to. 2955

**Rat (albino),**
- protection induced in by non-water soluble fraction of Trypanosoma lewisi against infection from homologous str. 3613
- transmission of Eimeria chinchillae to. 479

**Rat (cotton),** use in epidemiological studies of cutaneous leishmaniasis. 986

**Rat (dexamethasone-treated),**
- completion of life cycle of Eimeria vermiformis from the mouse in. 5257
- development of asexual cycle of Eimeria vermiformis from mouse in. 2296

**Rat (endotoxin-treated),** effect of serum from on isolated Trypanosoma equiperdum. 421

**Rat (Malaysian),** Eimeria from. 1892

**Rat (marsh rice),**
- Eimeria kinsellai from. 59
- Eimeria palustris and Isospora hammondi from. 3934

**Rat (partially hepatectomized),** decreased toxicity of phalloidin in. 4178

**Rat (tree),** ultrastructure of the study of pre-erythrocytic development of Plasmodium berghei in. 6479

**Rat (untreated and naganol-treated white),** biometrical study of Trypanosoma evansi in. 6877

**Rat-adapted Plasmodium vinckei,** synchronisation of growth and division of. 1933

**Rat liver microsomes,** formation of a factor lethal for Salmonella typhimurium on incubation of aflatoxin B1 with. 1480

**Rat macrophage,** adherence and phagocytosis of Plasmodium berghei by in vitro. 4862

**Rattus norvegicus,**
- isolation of Toxoplasma from in Egypt. 3609
- specificity of Eimeria contorta to. 2297

**Rattus norvegicus (dexamethasone-treated),**
- completion of life cycle of Eimeria vermiformis from the mouse in. 5257
- development of asexual cycle of Eimeria vermiformis from mouse in. 2296

**Reactivation** of microfauna of wood soils and resistance against dryness. 5489

**Reactivation (photo),** and gene dosage in yeast. 4381

**Reading,** quantitative studies on the phytoplankton of the Rivers Thames and Kennet at. 1305

**Recolonization** (microbial), effect of soil fumigation on. 7002

**Recombinants (intraspecific),** of Saccharomyces cerevisiae, heterozygous expression in. 2835

**Recombination,**
- affecting mating and inbreeding in Schizophyllum, genetic control of. 398
- and chromosome structure in eukaryotes. 1607
- during blocked chromosome replication in temperature-sensitive Ustilago maydis. 6210
- induction of by decay of $^{32}P$ incorporated into 1 or 2 genomes of yeast zygote. 7490
- of mitochondria in Saccharomyces cerevisiae. 3584
- in yeast. 4390

**Recombination (conversion-associated),** in yeast. 4386

**Recombination (intragenic),** effect of an inverted chromosome segment on in another chromosome of Sordaria brevicollis. 6209

**Recombination (meiotic),**
- in Ascobolus, evidence for involvement of only one member of a tetrad in. 2825

**Recombination (meiotic), contd.**
  system selective for yeast mutants deficient in. 1611
**Recombination (mitotic intragenic)**, of Aspergillus nidulans, genetic analysis of diploids of. 1627
**Recombination (parasexual)**, in Dictyostelium discoideum. 4374
**Recombination (spontaneous mitotic)**, rates of in Saccharomyces cerevisiae. 1612
**Recombination ability**, of Saccharomyces cerevisiae vegetative cells, control of. 5574
**Recombinational events (multiple)**, within the 84W locus of Ascobolus immersus. 1604
**Recombination frequencies**, in Neurospora crassa, details and effects of premeiotic controls of. 2830
**Rectal fluid**, of primitive attine ants, presence of protease activity in. 1425
**Rectal sympton complexes**, treatment of with Primarektal cream. 3637
**Rectocolitis (acute amoebic)**, frequency of in several dependencies of the Mexican Institute of Social Security. 3606
**Rectocolitis (amoebic)**, frequency of in private patients in Mexico City. 3607
**Rectum**,
  examination of in Candida albicans colopathies. 5623
  motility of in Chagas' disease. 452
**Recycling** through algae. 3824
**Red blood cells**, infected with Plasmodium, density distribution of. 486
**Red blood cells (Plasmodium coatneyi-infected)**, decreased deformability of, and possible relation to cerebral malaria. 5063
**Red blood cell damage** by Plasmodium falciparum in man, anatomy of. 7569
**Redbud**, effect of heat treatment of soil on Verticillium wilt infection of. 3094
**Red clover forage**, effects on rats and mice of mycotoxin produced by Rhizoctonia leguminicola isolated from. 4189
**Red clover germ plasm**, development of resistance to Kabatiella caulivora. 3057
**Red core** of strawberry, evaluation of fungicides and systemic insecticide for control of. 5070
**Red core outbreak** in Hampshire, race and pathogenicity of Phytophthora fragariae from. 5071
**Red-rot disease**, improved method for screening sugarcane against. 7444
**Red rot resistance**, studies on the nature of. 914
**Red tide**,
  caused by Noctiluca scintillans, occurrence and toxicity of in the coastal waters of Hong Kong. 6524
  studies on dinoflagellates causing. 1587
**Red tide (freshwater)**, on Clear Lake, California. 2524
**Red tide flagellates**, studies on. 4042
**Redeposition** of planktonic foraminifera. 7193
**Redox state of NAD** in Candida albicans, effect of 4-bromobenzyl isothiocyanate on. 3470
**Reductase (aldose)**, from Rhodotorula, reaction mechanisms of. 765
**Reductase (aryl-aldehyde:NADP-oxido-)**, from Neurospora crassa, stoichiometric studies on. 729
**Reductase (demethylating $O_2$ oxido)**, in Penicillium roqueforti, induced biosynthesis of. 5354
**Reductase (dihydrofolate)**,
  from baker's yeast, purification and properties of. 4782
  in Plasmodium chabaudi, synthesis of during synchronous schizogony. 785
**Reductase (dihydroorotate-quinone)**, of Neurospora crassa mitochondria. 730
**Reductase (ferredoxin:nitrite oxido)**, from Chlorella, purification and properties of. 7217
**Reductase (glutathione)**, from yeast, interaction of with reduced and oxidized NADP. 2640
**Reductase (glycolate:dichlorophenolindophenoloxido)**, in Chlamydomonas reinhardtii. 1387
**Reductase (haemoglobin)**, of yeast, purification and properties of. 3336
**Reductase (3-hydroxy-3-methylglutaryl-CoA)**, in Saccharomyces cerevisiae, subcellular localization of. 735
**Reductase (2-ketopantoic acid)**, of yeast, separation and preliminary studies on. 7256
**Reductase (L-lactate: cytochrome C oxido)**,
  differences in quaternary structure and constitutive chains between 2 homologous forms of. 3352
  of Hansenula anomala, use in study of intramolecular multielectron transfer. 1978
**Reductase (L(+)lactate: cytochrome C oxido)**, from Hansenula anomala, preparation and characterization of. 3317
**Reductase (latent nitrate)**, from a thermophilic alga. 4761
**Reductase (nitrate)**,
  from Ankistrodesmus, iron content and electron donor specificity of. 3306
  of Chlorella. 7216
  of Chlorella, properties of. 6581
  from Cyanidium caldarium. 2581
  from Cyanidium caldarium, effect of heat treatment on activity in vitro of. 3305
  of Neurospora, role of molybdenum in synthesis of. 3321
  in Neurospora crassa, regulation of. 5327, 5328
  from Neurospora mutant, and component of

**Reductase (nitrate), contd.**
  molybdenum-enzyme. 2597
  variation of activity in marine phytoplankton. 1969
**Reductase (nitrite)**, in Neurospora crassa, induction of. 4770
**Reductase activity (nitrate)**, from Chlamydomonas reinhardi, disappearance of. 5961
**Reductase synthesis (nitrate)**, regulation by ammonia of in Chlamydomonas reinhardtii. 7351
**Reduviid bugs**, behaviour of avirulent PF Trypanosoma cruzi in. 1736
**Reed**, infected with Ustilago grandis, transpiration of. 7644
**Reef algae**, at La Parguera, Puerto Rico, heat tolerance of. 7358
**Regeneration**,
  of Aspergillus nidulans protoplasts. 3223
  of coral reefs. 649, 667
  of Griffithsia pacifica from single cells, morphogenesis in. 6493
  of Histoplasma capsulatum protoplasts. 7123
  of Lacrymaria olor, observations on morphology and oral morphogenesis during. 7138
  of Mucor prainii sporangiophores. 3212
  in Phycomyces sporangiophores. 3963
**Regenerative calcium response** in Paramecium. 7725
**Regulation (cellular)**, of mitochondrial DNA synthesis in Saccharomyces cerevisiae. 6571
**Regulatory enzyme** of haem-biosynthetic pathway in Neurospora crassa, $\delta$-aminolaevulinate dehydratase as. 6590
**Regulatory mutant** of maltase synthesis in Saccharomyces carlsbergensis. 6762
**Reindeer**, transfer radiocaesium from lichen to. 1185
**Reindeer-man food chain**, from lichen, sodium 22 in. 7034
**Relative humidity**,
  effect on Condidia formation by Cercospora beticola on sugar beets. 4257
  effect on germination and longevity of Chaetomium thermophile var. coprophile ascospores. 2061, 2718
**Relic** Campylodiscus. 561
**Remington test**, critical study of for early diagnosis of acute toxoplasmosis. 2805
**Renal failure**,
  association of with falciparum malaria. 3677
  due to acute glomerulonephritis during falciparum malaria. 4485
**Renal insufficiency (acute)**, falciparum malaria causing. 4967
**Renal pathology**, (see Kidney)
**Renal transplant**,
  papillary necrosis in. 2883
  urinary candidiasis after. 4446, 5012
**Renal transplant (cadaveric)**, infection after. 5009
**Renin (calf)**, inactivation of acid proteases from b diazoacetylnorleucine methyl ester. 3454
**Renin-like enzyme** from Aspergillus niger, electrophoresis and activity of. 4111
**Repair (excision)**, in Tetrahymena pyriformis, time sequence of events during. 3991
**Repair systems** in Saccharomyces, genetic contro of sensitization by oxygen with involvement of. 5577
**Replica plating**,
  of Coprinus lagopus, technique for. 938
  of Neurospora crassa, simple and reliable method for. 6149
**Replicating instability**,
  in cell generation series as exemplified by Schizosaccharomyces pombe. 3587
  in yeast. 5578, 5579
**Replication**, of DNA in Physarum polycephalum. 6567
**Replication (preferential)**, of the rRNA genes during nutritional shift-up in Tetrahymena pyriformis. 6773
**Replication sequence**, of Tetrahymena DNA, repetition of. 1377
**Repression (catabolite)**, of cellulase formation in Trichoderma viride. 7253
**Reproduction**,
  of confused flour beetles exposed to fungus metabolites. 3704
  of Cystoseira stricta. 3358
  of the Fungi. 3917
  of Geminella planctonica. 5813
  in Hansenula holstii. 622
  of Laminaria saccharina female gametophytes, induction of by blue light. 5462
  of microorganisms, role of intercellular contact in. 7342
  of natural harvested populations of Gigartina stellata in New Hampshire. 5914
  of Navicula ostrearia in vitro. 3199
  in New York populations of Codium, seasonal patterns of. 7100
  of Penicillium baarnense, physiological results of mutations affecting. 2182
  of Phycomyces blakesleeanus. 3218
  of Phycomyces blakesleeanus, actinomycete metabolites affecting. 1547
  of Phytophthora cactorum, relation to calcium chloride. 2813
  of Pterosiphonia complanata. 4003
  of Schimmelmannia dawsonii. 5826
  of Swedmarkia arenicola. 1907
  in Trypanosoma lewisi, inhibition of by ouabain. 5483
  of Ulothrix pseudoflacca in the Roscoff region. 610

- **Reproduction, contd.**
  - by zoospores in Oedogonium. 3850, 3951, 3952
- **Reproduction (asexual),**
  - in Chlamydomonas, first division of protoplast in the course of. 6485
  - through a thecate stage in Pyrocystis acuta. 5867
- **Reproduction (photoinduced sexual),** action spectrum of in Nectria haematococca. 4273
- **Reproduction (sexual),**
  - of Arthroderma and Nannizzia on diluted Sabouraud agar. 2487
  - in Chaetomium. 78
  - in Cochliobolus carbonum, influence of extracts from senescent corn leaves on. 6663
  - of Histoplasma capsulatum. 2491
  - in Leptosphaeria avenaria f. sp. triticea induced by wave lengths of light >560 mu. 2073, 3482
  - in Leptosphaerulina trifolii, action spectrum for light-inducing. 6666
  - in Phytophthora palmivora. 1915, 3964
  - of Sebdenia rodrigueziana. 5827
- **Reproduction (sexual and asexual),** in fungi, effects of morphactin on. 2063
- **Reproduction probability** of benthos algae with various cycles of development. 5238
- **Reproductive organs,**
  - of Delisea fimbriata, morphological study of. 573
  - of Sorella repens, development of. 613
- **Reproductive tract (male),** of Heterakis gallinarum, structure and development of Histomonas meleagridis in. 1886
- **Reptiles,**
  - distribution of Basidiobolus ranarum in. 1952
  - and their importance in the epidemiology of leishmaniasis. 1638
  - infectious diseases of. 4498, 5660
  - new family of non-pigmented parasites in the blood of. 1898
  - parasitic diseases of. 5067
  - transfer of haemogregarines of to foreign hosts. 4518
- **Reptiles (Armenian),** cytochemical studies on the haemogregarines of. 7602
- **Reserpine,** determination of with Hematococcus pluvialis. 905
- **Reservoir (Bhavanisagar),** ciliate parasites of fish on. 6322
- **Reservoir (Riveristal),** enrichment experiments in. 4933
- **Reservoir (storage),** prognosis of material composition of water in. 3242
- **Residue (decomposing plant),** use and translocation of $^{14}C$ by microorganisms from. 530
- **Resin (conifer),** ascospore dispersion in Ceratocystis and Europhium clavigerum. 6720
- **Resistance,**
  - of AKR mice to lymphoid leukaemia associated with chronic protozoan infection. 1664
  - to Alternaria in wheat, genetics of. 6350
  - to Ascochyta infection, evaluation of chick-pea for. 6352
  - to black shank, in Nicotiana tabacum, inheritance of. 2153
  - of cabbage to some bacterial and fungal diseases. 6351
  - of Candida, development of to polyene antibiotics in vitro. 1549
  - of Cladosporium cucumerinum, against 6-azauracil and 6-azauridine, mechanism of. 5512
  - to 2-deoxy-D-glucose, in Coprinus lagopus, selection for. 2176
  - against dryness and reactivation of microfauna of wood soils. 5489
  - of Entomophthora resting spores. 301
  - to ethionine in Chlorella mutants. 323
  - to Erysiphe graminis f. sp. hordei, new genes at the Ml-a locus in barley for. 1107
  - to fungal disease, alterations in plants by changes in the chemical environment of the shoot surface. 311
  - to fungal diseases, initial material for breeding soybeans with. 6371
  - to Fusarium, inheritance of in a jointless tomato as affected by the X gametophytic factor. 5109
  - to Fusarium solani f. phaseoli in beans, genetics and heritability of. 5110
  - inheritance of to Puccinia hordei in barley. 1623
  - to Peronospora, in tobacco, mechanism of. 2978
  - to Peronospora, in tobacco, microbiological and biochemical investigations on the mechanism of. 3748
  - to Phytophthora citrophthora, serodiagnostic studies on Citrus with respect to. 2111
  - of plants, to bacterial and fungal pathogens, induction of. 527
  - to polyene antibiotics in yeast, new loci for. 1631
  - to Rhizoctonia solani, evaluation of lima bean and selection for. 5124
  - to Thielaviopsis basicola in beans, genetics and heritability of. 5129
  - to tomato early blight, field evaluation for. 2349
  - of some tropical marine algae. 5463
  - to wheat leaf rust in Kenya, physiologic specialisation and sources of. 3009
- **Resistance (disease),** crop vulnerability and breeding for. 6969
- **Resistance (dodine),** in Nectria haematococca

**Resistance (dodine), contd.**
  var. cucurbitae, independent inheritance of. 964
**Resistance (field),** of strawberry to Phytophthora fragariae. 5072
**Resistance (hybrid),** of tomato, evaluation of to leaf mould. 6356
**Resistance (induced),** to bean anthracnose at a distance from the site of the inducing interaction. 1001
**Resistance (nonspecific),**
  in macrophages by specifically sensitized lymphocytes, in vitro induction of. 1008
  of an organism, nature and mechanism of. 4406
**Resistance (passively transferred endotoxin),** role of platelets in. 2212
**Resistance (thermo),**
  characterization of thermo-adaptable Entamoeba histolytica by. 4346
  of Tetrahymena pyriformis throughout cell cycle. 4867
**Resources (marine),** of the Waquoit Bay-Eel Pond Estuary, study of. 7149
**Respiration,**
  and anaerobiosis resistance of freshwater algae. 7361
  of animals, role of symbiotic bacteria in Pelomyxa palustris in. 1287
  of Chlorella, effect of cupric and fluoride ions on. 5457
  in Chlorella, enhancement by blue light. 296
  in Chlorella cell development. 609
  in Chlorella pyrenoidosa, regulatory effects of ammonia on carbon metabolism during. 4194
  of Cystoseira stricta. 3358
  dependence of nitrite assimilation in green algae of energy supplied by. 2689
  in DCMU-poisoned Chlorella light-induced inhibition of caused by photosystem I activity. 4235
  effect of some inhibitors of on growth and formation of lipids by yeast Lipomyces starkeyi. 7367
  effect of temperature on in P-starved Candida cells. 890
  effect of Zn-protoporphyrin accumulation by yeast on synthesis and activity of. 288
  in Eimeria oocysts, comparative measurements of. 639
  of erythromycin-producing organism. 289
  of Euglena gracilis, effect of antimycin A on. 3496
  in Fucus virsoides, physiological tolerance of. 3447
  in Hydrodictyon africanum, inhibitor effects on. 2712
  in Mucor genevensis, development of after anaerobic growth. 2717
  in Neurospora, selective inhibition of enzyme synthesis during inhibition of. 164
  in ox-neck muscle mitochondria, fuscin as inhibitor of. 6066
  in Polystictus versicolor. 3421
  in regenerative system of coral reefs. 667
  of Saccharomyces sake, recovery of after growth with $\alpha$-phenethyl alcohol. 2701
  selective inhibition of enzyme synthesis under conditions of inhibition of. 1396
  in Tetrahymena pyriformis, effect of isoriboflavin and cyanide on. 2739
  in an unsaturated fatty acid mutant of Saccharomyces cerevisiae, effect of unsaturated fatty acids on the development of. 5575
  of yeast, changes in during cellular senescence caused by carbon-source starvation. 7468
  in yeast, during sporulation. 88
**Respiration (after-light),** in obligate phototrophic blue-green algae cell suspensions, correlation with photoinduced pH changes and photosynthetic $O_2$ evolutions. 5424
**Respiration (cyanide-resistant),** in Neurospora crassa. 1514
**Respiration (endogenous),**
  in Aspergillus giganteus mycelium. 2727
  and oocyst segmentation of Eimeria tenella during sporogenesis. 5256
  Typhula idahoensis, study on. 3469
**Respiration (photo),** and nitrogenase activity in Anabaena cylindrica. 3397
**Respiration (terminal),** effect of diphenylamine on in bloodstream and culture forms of Trypanosoma brucei. 6110
**Respiration capacity** of yeast after photoinhibition, recovery of. 6095
**Respiration deficient mutant (yeast cytoplasmic),** nalidixic acid for prevention of induction of by intercalating drugs. 5450, 5492
**Respiration-deficient mutations induction,** in yeast, kinetic study on the effect of glutamate on. 4284
**Respiratory activity,**
  of Candida tropicalis during growth on hexadecane and on glucose. 5442
  comparative metabolic activity of brain slices of rats infected with pathogenic and non-pathogenic trypanosome evidence by. 6306
  of Chlorella ellipsoidea in various nutrient media. 5521
**Respiratory adaptation,**
  in normal and $op_1$ mutant yeast, oxidative phosphorylation during. 2049
  in the synthesis of protohaeme by Saccharomyces cerevisiae, influence of glucose on. 7336
**Respiratory competent yeast** degenerative effects of ethidium bromide on mitochondrial

**espiratory competent yeast, contd.**
  genetic information in. 4947
**espiratory deficiency**, effect of on the alcohol dehydrogenase activity of baker's yeast. 5333
**espiratory-deficient baker's yeast**, absence of membrane-bound elementary particles following negative staining of. 5200
**espiratory deficient mutants** in yeasts, quantitative selection of by triphenyltetrazolium chloride. 4853
**espiratory deficient mutants (nuclear)**, of yeast, a suppressor of. 2172
**espiratory deficient yeast str**, growth kinetics of in continuous culture. 935
**espiratory disease (chronic)**, in poultry, pathology of. 4503
**espiratory disease (secondary)**, inhalation of fungal spores as cause of. 1654
**espiratory-Distress-Syndrome**, hydrated ergot alkaloids in cases of. 4994
**espiratory electron transport activity**, in marine phytoplankton, measurement of. 1564
**espiratory increase** in active hexose uptake of Chlorella vulgaris. 7279
**espiratory inhibitor**, from the gill tissue of sporulating Agaricus bisporus, mechanism of action of. 5472
**espiratory metabolism** of Saccharomyces cerevisiae during sporulation, study of. 3969
**espiratory mutants (glucose superrepressed and derepressed)**, in petite-negative Schizosaccharomyces pombe. 6207
**espiratory mycoses**, incidence of in birds. 3694
**espiratory response (lowered)**, to ADP of mitochondria isolated from Schizophyllum commune mutant B str. 5473
**espiratory system**,
  of Aspergillus oryzae, study on. 4214
  study and role of alveolar macrophage in defence of against infection. 5613
  in yeast, importance of mitochondrial DNA synthesis in the biogenesis of. 4075
**espiratory tract**,
  of fowls, fungal flora of. 120
  of humans, study of fungal content of. 665
**espiratory tract infections (lower)**, transtracheal aspiration in the diagnosis of. 5011
**eticulitermes flavipes**, effect of wood decayed by Lenzites trabea on the fatty acid composition of. 6408
**eticulo-endothelial system**, effect of immunosuppression in murine malaria on. 1666
**etina**,
  Candida albicans abscess of. 5619
  microaneurysms of the capillaries of in a case of vascular pseudopapillitis. 2935
**Retinochoroiditis (acute toxoplasmic)**, in rabbits, influence of polyinosinic-polycytidylic acid complex on. 5065
**Reversion**,
  of aryl sulphataseless mutants of Neurospora. 2161
  at the leu-5 locus of Neurospora. 2159
  of mutants of Fusarium, effect of chemical mutagens on. 3491
**Reversion frequency**, genetic determination of in isoleucine-valine 1 homoallelic crosses in Neurospora. 6188
**Reversion frequency (spontaneous)**, of radiosensitive Saccharomyces cerevisiae. 968
**Reversion patterns (chemically induced)**, of Salmonella typhimurium and Saccharomyces cerevisiae mutants, comparison of. 4385
RH-124, control of wheat diseases with. 4562
RH 893, toxicity of against seed-borne pathogens of maize. 2355
**Rhabdomys pumilio**,
  Eimeria from. 2294
  transmission of Eimeria chinchillae to. 479
**Rhamnose**, from Phaeocystis poucheti, production of. 3357
**L-Rhamnose**, diols from lipid hydrolyzates of yeast cultured in medium containing. 7297
**Rhamnosides (carotenoid)**, of Sorangium compositum, analysis of. 822
**Rheumatism**, phagocytic test in synovial fluid from patients with. 5530
**Rheumatoid factor**, control for in the latex test for cryptococcosis. 2123
**Rhinitis**, mould hyposensitization in. 5635
**Rhinophycomycosis entomophthorae** occurrence of in a chimpanzee in the wild in East Africa. 5039
**Rhinosporidosis**, unique ocular manifestations of. 1013
**Rhinosporidiosis (ocular)**. 5017
**Rhipicephalus appendiculatus**, attempts to transmit Babesia microti in laboratory mice by. 5683
**Rhipicephalus bursa**, fine structure of merozoites of Babesia ovis in the salivary glands of. 3721
Rhizoid, in thraustochytriaceous fungi and Labyrinthula, ultrastructure of. 5190
Rhizoid formation,
  in Fucus zygotes, ultrastructural study of the determined site of. 3882
  in Polysiphonia lanosa, light and electron microscopic study of. 4699
**Rhizome rot** of peppermint caused by Phoma strasseri. 2376
**Rhizomorph**,
  in Armillaria mellea, fatty acids and naturally occurring plant lipids as stimulants of

- **Rhizomorph, contd.**
  - production of. 4252
  - in fungi, formation of. 5889
  - of Leptoporus lignosus, formation of. 5251
- **Rhizosphere,**
  - of cucumber seedlings, indirect action of 6-azauracil against Phythium debaryanum in. 6901
  - enumeration of antibiotic-producing microorganisms in. 946
  - of euphorbiaceous plants, fungal flora of. 2399
  - of groundnut, Penicillia from. 4621
  - of ivy, mixed culture of micro-organisms in. 6378
  - of Phaseolus vulgaris, occurrence of antagonistic microorganisms in. 2390
  - presence of microorganisms which degrade urea and cyanamide in. 2386
- **Rhizosphere effect**, biological and ecological aspects of. 1802
- **Rhizosphere fungi**, studies on. 6442
- **Rhizosphere microflora,**
  - 3098, 3815, 4620
  - of coriander with emphasis on fungistasis. 3812
  - of tobacco mosaic virus infected Capsium annuum. 6326
- **Rhizosphere microorganisms**, biochemical weathering of calcium-bearing minerals by. 3816
- **Rhizosphere mycoflora,**
  - of Oryza sativa, effect of fertilizers on. 1804, 3095
  - of papaya, effect of virus infection on. 6391
- **Rhizosphere soil fungi** of some vegetable plants. 5772
- **Rhizoplast**, of Naegleria flagellates, variable periodicity in. 3931
- **Rhizopods**, relative importance in activated sludge. 694
- **Rhodanine derivatives**, antimicrobial activity of. 7418
- **Rhodesia,**
  - ecology of Armillaria mellea in the indigenous and exotic woodlands of. 5922
  - isolated outbreak of cattle trypanosomiasis near the Victoria Falls in. 3711
  - malaria due to Plasmodium ovale in. 458
- **Rhodnius prolixus,**
  - behaviour of avirulent Trypanosoma cruzi PF in. 1073, 1736
  - individual sterilization of by metepa (tris-(1-(2-methiol)aziridinil)-phosphoric oxide) and its action on Trypanosoma cruzi. 7593
  - transmission of Trypanosoma cruzi infection to via the oral route. 4510
- **Rhodotorulic acid**, synthesis of. 7324
- **Rhodotorulic acid biosynthesis**, in deuterium oxide media, protonated amino acid precursor studies on. 6040
- **Rhodymenia palmata**, Halosacciocolax parasitic on. 7056
- **Rhombomys opimus**, infection of with Leishmania tropica in the Karakalpak ASSR. 4507
- **Rhone (mouth of)**, ecological observations on Foraminifera of brackish water in. 3289
- **Rhythm (circadian)**, importance of str and composition of medium in photoinduction of in zonation of Neurospora tetrasperma. 4850
- **Rhythm (endogenous)**, in Penicillium claviforme mutants, induction of. 2075
- **Rhythm (fruiting)**, Coprinus congregatus, research on. 6501
- **Rhythm (photoperiodic)**, synchronisation of growth and division of rat-adapted Plasmodium vinckei by. 1933
- **Rhythm of zonation (internal)**, in Aspergillus niger, role of glucose in induction and self-maintenance of. 3225
- **Ribitol**, in Aspergillus clavatus, role of. 3364
- **Riboflavin,**
  - biosynthesis of. 2831
  - from Blakeslea trispora, production of. 3409
  - in Candida guilliermondii, accumulation of. 208
  - in Candida guilliermondii, formation of. 5380
  - effect of adenine on the photodynamic inactivation of yeast alcohol dehydration in the presence of. 2735
  - effect of trisporic acids on the production of by Blakeslea trispora. 6662
  - in Saccharomyces cerevisiae, biosynthesis of. 6201
  - use of mutagenic agents for breeding of Eremothecium ashbyii producing. 6119
  - yeast variants producing. 1500
- **Riboflavin (iso)**, effect on growth respiration in Tetrahymena pyriformis. 2739
- **Riboflavin producing capacity**, of Eremothecium ashbyii, correlation between the morphological variability and. 7303
- **Riboflavin synthesis**, isolation of Eremothecium ashbyii mutants and study of the level of. 6184
- **Riboflavin synthetase**, from Eremothecium ashbyii, second-order kinetic reaction catalyzed by. 162
- 5'-D-**Riboflavin-α-D-glucopyranoside**, in growing cultures of Mucor, production of. 221
- **Ribonuclease**, (see RNase)
- **Ribonucleic acid**, (see RNA)
- **Ribonucleoprotein (deoxy)**, of yeast, absence of complete repression of specific part of DNA during in vitro transcription of. 710
- **Ribonucleoside (thymine)**, convertion of thymidine to in the hydroxylase reaction. 2596

**Ribose (3'-terminal)**, substrate properties of yeast tRNA$^{Phe}$ oxidised and reduced after. 2575
**Riboside (5-amino-imidasol-)**, from Saccharomyces cerevisiae, separation and purification of. 7270
**Ribosomal activity** in rust fungi. 4706
**Ribosomal mutants**, in yeast, selection by antibiotic suppression. 2170
**Ribosomal subunit**, formation of in Dictyostelium discoideum. 6565
**Ribosome binding ability**, inactivation of by terminal oxidation reduction of yeast phenylalanine tRNA. 4755
**Ribosome function (chloroplast)**, chloroplast ribosome deficient mutants of Chlamydomonas reinhardtii and the question of. 5569
**Ribosome synthesis** in Saccharomyces cerevisiae temperature sensitive mutants affecting. 4384
**Ribosomes**,
  of Chlorella, influence of nitrogen deficiency on uridine incorporation into. 5456
  of Erysiphe graminis nongerminated conidia, isolation and characterization of. 577
  of Euglena gracilis, distribution of among chloroplasts. 6433
  formation of during germination of flax rust uredospores. 4076
  metabolism in mildew-infected barley leaves. 1106
  of Neurospora crassa, effects of bound peptidyl-tRNA on dissociation into subunits and on phenylalanine polymerization at low $Mg^{2+}$ concentration. 2571
  of Neurospora crassa, peptidyl-puromycin reaction with. 1363
  proflavine binding to. 3302
  soluble factor from yeast which promotes GTP-dependent binding of N-acetylphenylalanyl-tRNA to. 4143
**Ribosomes** (active poli), isolation of from cytoplasm, mitochondria and chloroplasts of Euglena gracilis. 6146
**Ribosomes (altered mitochondrial)**, in an erythromycin resistant mutant of Paramecium. 6706
**Ribosomes (chloroplast)**, from antibiotic-sensitive and resistant Chlamydomonas reinhardtii, dihydrospectinomycin binding to. 6690
**Ribosomes (cytoplasmic)**, of Euglena gracilis, properties of in salt. 4243
**Ribosomes (mitochondrial)**,
  from Candida parapsilosis. 4077
  from Saccharomyces cerevisiae. 4071
  from Tetrahymena, protein synthesis in vitro with. 3356
  from yeast, highly active in protein synthesis, isolation of. 805
**Ribosomes (poly)**,
  of Paramecium, effect of monovalent ions on. 7215
  from Schizosaccharomyces pombe, method for extraction of. 352, 1569
**Ribosomes (87S)**, of Euglena gracilis, integrity of 25S ribosomal RNA from. 137
**Ribulosediphosphate**, in Scenedesmus obliquus, maize and peas, influence of ferredoxin on activity of. 4238
**Rice**,
  in California, distribution and occurrence of Sclerotium oryzae on. 3061
  cytoplasmic effects on the leaf blast reaction in. 6977
  dichlorvos as inhibitor of aflatoxin production on. 7405
  diseases of. 1122
  effect of inoculation with Tolypothrix tenuis on the yield of. 4613
  fungicidal control of seed rot and seedling diseases of by an insecticidal seed treatment. 5167
  induced resistance in Dular var of against Helminthosporium infection. 4591
  infestation of during importation to Poland. 3115
  leaf scald of in West Africa. 5125
  pests and diseases of and remedial measures. 6988
  recognition and control of disease of. 3055
  resistance induced in, against Helminthosporium infection. 7668
  soil microflora from USSR east coast fields of. 1158
  from South Vietnam, mycotoxin contamination of. 538
**Rice (wild)**, changes in the microflora of during curing by fermentation. 7707
**Rice culture**,
  of Penicillium viridicatum, hepatorenal damage induced in mice by. 3058
  of Penicillium viridicatum, phototoxic syndrome induced in mice by. 1730
**Rice leaf** infected by Helminthosporium oryzae, change in chloroplast amino acid of. 4592
**Rice soil**, inoculated with Tolypothrix tenuis, changes of nitrogen content of. 3799
**Rice starch**, hydrolysis of by fungal enzymes. 4114
**Rice stem rot fungus**, morphology, taxonomy and sexuality of. 6445
**Ricinus communis**,
  leaves of, effect of factors from fluorescence induction of higher plant chloroplasts and intact algae. 879
  parasitism and physiology of Alternaria ricini causing blight of. 2348

**Rickettsia**, associated with plasmodial development in Anopheles stephensi. 484
**Rifampicin**,
  antagonistic effects of to phalloidin and α-amanitin. 2939
  as an antifungal agent against the yeast phase of Histoplasma capsulatum, amphotericin B potentiation of. 7409
  biological effects of on Acetabularia mediterranea. 4286
  effect of on mobility of Leishmania tropica promastigotes in an electric field. 5481
  potentiation of as antifungal antibiotic by amphotericin B. 4292
  in the treatment of gonococcal and nongonococcal microbial urethritis. 7577
  vital staining of plant cells with. 7431
**Rifampicin-resistant RNA polymerase** from mitochondria of yeast, Neurospora and liver, isolation of. 7223
**Rifamycins**, effect on the ultrastructure of Anacystis montana. 1545
**Ringworm**,
  in bovine calves. 6298
  in groups of wild animals. 2843
  of pig, Microsporum nanum causing. 7584
  in a racoon. 1731
  role of histamine in the pathogenesis of. 5665
**Ringworm (animal)**, in man, epidemiology of. 4960
**Ringworm (experimental)**, in primarily infected and re-inoculated cattle. 6299
**Rishitin**, accumulation of by potato. 1096
**Ristomycin**, effect on the growth of Proactinomyces fructiferi var. ristomycini. 340
**River Kongo-Gawa**, ecological studies on epilithic algae in. 1311
**River Lieve (polluted)**, hydrobiological study of. 3844
**River Metolius**, benthic algal communities of. 2530, 3247
**River Stavjna**, antagonistic relations among fungi from. 2550
**River Thames and Kennet**, at Reading, quantitative studies on the phytoplankton of. 1305
**River Vorskla (upper)**, study of phytoplankton of. 6530
**River Yoshii-Gawa**, distribution of epilithic algae on the upper reaches of. 7143
**Rivers (Italian)**, trophic interrelations in. 7689
**Rivers (tropical)**, Amoeba navina from. 3927
**Riveris Reservoir**, ecological investigations of the plankton of. 656
**RNA**,
  in Chlamydomonas reinhardi y-1 mutant cells, inhibition of during greening. 3344
  decreased formation of Golgi bodies in amoebae in the presence of. 2080
  effect of α-amanitin on synthesis in polytene chromosomes. 833
  from malarial parasite, depressed incorporation of purine derivatives into by known RNA polymerase inhibiting drugs. 4900
  in Neurospora crassa mycelia, effect of magnesium and polyamine levels on. 141
  partial Ustilago sphaerogena nuclease digests of, fractionation by column chromatography in aqueous methanol. 142
  from Phycomyces blakesleeanus, characterization of. 3294
  of Plasmodium berghei, in vitro incorporation of purine derivatives into. 145
  from Schizosaccharomyces pombe, method for extraction of. 352
  of Schizosaccharomyces pombe, new method for extraction of. 1569
  in Spriostomum ambiguum, role in formation of memory traces. 1375
  in Tetrahymena pyriformis, characterization of. 718
  of Tetrahymena pyriformis, resolution of some component classes of by molecular hybridization. 719
  in Tetrahymena pyriformis synchronized cultures, heterogeneity of. 1381
  of tobacco mosaic virus, binding of histidine to. 6611
  from a virulent Trichomonas gallinae, effect on pathogenicity of an avirulent str. 2745
  of yeast, nucleotide sequence in 14 dinucleotides modified by 2'-O-methylation from. 5313
**mRNA**,
  from Euglena gracilis, saline fractionation and characterization of from dividing cells. 4753
  in Neurospora glucose transport system, transcription and degradation of. 705
**rRNA**,
  of blue-green and red algae, analysis of by gel electrophoresis. 2564
  of fungi, molecular weights of. 1371
  in Neurospora, single cistron for. 3296
  and ribosomal precursor RNA in Anacystis nidulans. 7201
  in Saccharomyces carlsbergensis, role of rapidly labelled 20-S RNA in biosynthesis of. 706
  of yeast, proflavine binding to. 3302
  in yeast nucleus, precursors of. 3297
**tRNA**,
  of Escherchia coli, inhibition and activation of methylation of. 7213
  from higher plants, Neurospora, yeast and Escherichia coli, interspecies

- **tRNA, contd.**
  - aminoacylation of. 5944
  - transfer of methylases of during the Neurospora crassa germination. 81
  - of organelles and prokaryotes, similarity between. 2567
  - structural changes in from changes in the Raman scattering intensities. 7212
  - thermodynamic studies of. 5956
  - of unfractionated yeast, natural-abundance, carbon-13 Fourier-transform nuclear magnetic resonance spectra and spin lattice relaxation times of. 5950
  - of yeast, effect of guanidine hydrochloride on circular dichroism of. 7376
  - from yeast, specificity of AAG codon recognition by. 1966
- **tRNA (N-acetylphenylalanyl),** soluble factor from yeast which promotes GTP-dependent binding of to ribosomes. 4143
- **tRNA (alanine),** from Torulopsis utilis, nucleotide sequence of. 7209
- **tRNA (arginyl),** of Neurospora crassa. 6569
- **tRNA (aspartate),** from brewers yeast, primary structure of. 4069, 4070
- **tRNA (bound peptidyl),** of Neurospora crassa ribosomes, effect on dissociation into subunits at low $Mg^{2+}$ concentration. 2571
- **tRNA (bulk),** of yeast, cell-free enzymic esterification of 5-carboxymethyluridine residues in. 4079
- **RNA (chloroplast),** in dark-grown, light-grown and greening Euglena gracilis. 1360
- **rRNA (chloroplast),** of Chlorella, incorporation of uridine and orotate into after treatment with antibiotics. 2565
- **RNA (cytoplasmic),** comparative cytophotochemical investigation of the dynamics of in Eimeria tenella endogenous development. 5316
- **RNA (double-helical),** thermal denaturation in acidic solutions of from virus like particles in Penicillium chrysogenum. 1788
- **tRNA (fluorouracil-containing),** from Saccharomyces cerevisiae, reduced levels of 5,6-dihydrouridine in. 707
- **tRNA (histidine),** from baker's yeast, number of isoaccepting species and their coding specificity in. 5946
- **tRNA (lysine),**
  - from bakers' yeast, nucleotide sequence of. 4757
  - from haploid Saccharomyces cerevisiae, structure and coding specificity of. 6572
- **tRNA (methionine specific),** from brewer's yeast and haploid yeast. 1365
- **tRNA (methionyl),** in Neurospora cytoplasm, protein chain initiation by. 2570
- **RNA (methylated),** of Euglena gracilis, appearance of on illumination of cells grown in the dark. 1359
- **RNA (mitochondrial),** of yeast, hybridization studies with. 6570
- **tRNA (mitochondrial),**
  - association of with mi-1 cytoplasmic mutation in Neurospora crassa. 6761
  - hybridization of with mitochondrial DNA in petite mutants of yeast. 4081
  - hybridization of with mitochondrial and nuclear DNA of grande yeast. 4080
- **tRNA (phenylalanine),**
  - of Neurospora crassa, heterologous charging of by Escherichia coli valyl-tRNA. 5309
  - of yeast, excision of nucleotides from the dihydrouridine loop of. 3298
  - of yeast, inactivation of $T_u$ factor GTP recognition and ribosome binding ability by terminal exidation reduction of. 4755
- **tRNA ('renaturable' leucine),** nucleotide sequence of. 715
- **rRNA (26S),** in Acanthamoeba castellani, discontinuity of. 4759
- **rRNA (25S),** the integrity of, from Euglena gracilis 87S ribosomes. 137
- **rRNA (stable),** isolation of from whole cells of Chlamydomonas reinhardtii. 5306
- **tRNA (tryptophan),** from brewers yeast, nucleotide sequence of. 708
- **tRNA 1 (valine),** from Torulopsis utilis, chemical modification of pseudouridylic acid in. 5954
- **RNA biosynthesis** during Candida albicans growth, changes in. 6574
- **RNA components (small molecular weight),** in Tetrahymena pyriformis. 2577
- **RNA molecule (double-stranded),** occurrence of in viruslike particles of Penicillium chrysogenum. 5141
- **tRNA nucleotidyl transferase,** from bakers yeast, isolation and properties of. 166
- **tRNA salts,** of yeast, abnormal dependence of melting temperatures of on the ionic strength of solution. 892
- **RNA synthesis,**
  - in Allomyces arbuscula diploid life cycle. 6034
  - in Blastocladiella emersonii, relation to structural changes in zoospore germination. 1913
  - dependence of the nucleolar structure on. 7203
  - during chloroplast development in Euglena gracilis. 2568
  - in irradiated diploid yeast at 50% survival level. 4756
  - in Neurospora crassa synchronous development, temperature-dependent actinomycin D effect on. 2096
  - in nuclei and nucleoli from Physarum polycephalum at different times during the cell cycle, effect of α-amanitin and $(NH_4)2SO_4$ on. 7362

**RNA synthesis, contd.**
  in Plasmodium berghei in vitro. 4083
  in Saccharomyces cerevisiae, search for mutants uncoupled in. 2164
  in yeast, dependence on continuous protein synthesis. 3299
  in yeast nucleus, electron microscopic autoradiography of. 4068
**rRNA synthesis,**
  and maturation in Anacystis nidulans. 7202
  and ribosome formation during germination of flax rust uredospores. 4076
  in Saccharomyces cerevisiae. 4072
  in Volvox. 3292
**RNA synthesis (nuclear),** effect of $\alpha$-amanitin in vivo on. 6632
**RNA synthesis inhibitor,** permeability problems encountered when treating conidia of Neurospora crassa with. 6683
**tRNA synthetase (phenylalanyl),**
  from bakers' yeast, cation dependence of the transfer reaction catalyzed by. 738
  of yeast, purification, molecular weight and subunit structure. 169
**mRNA translation,** in Tetrahymena, studies on efficiency of during cold shifts. 1380
**tRNA 1 (valine),** of yeast, circular dichroism of. 5314
**$\text{tRNA}^{\text{Arg}}_{\text{II}}$** of brewer's yeast, purification of. 5951
**$\text{tRNA}^{\text{Arg}}_{\text{III}}$** from Brewer's yeast, sequences of nucleotides in. 7206
**$\text{tRNA}^{\text{Asp}}/\text{tRNA}^{\text{Trp}}$,** of yeast, optimal conditions for aminoacylation of. 716
**$\text{tRNA}^{\text{Phe}}$,**
  of yeast, aminoacylation of fragment combinations from. 3362
  of yeast, preparation and characterization of fragments from. 3300
  of yeast, substrate properties of after oxidation and reduction at the 3'-terminal ribose. 2575
**$\text{tRNA}^{\text{Ser}}/\text{tRNA}^{\text{Tyr}}/\text{tRNA}^{\text{Phe}}$,** from Baker's yeast, large scale purification of. 7207
**$\text{tRNA 1}^{\text{Val}}$,**
  from baker's yeast, preparative method for isolation of employing double-stepping chromatography. 1366
  from yeast, 3-dimensional structure of. 5315
  from yeast, exposed and buried guanosine residues in. 2572
**RNA/DNA hybrid,** in eukaryotes, role of. 3330
**RNA/DNA hybridization studies** in Trichoderma. 3301
**RNase,**
  from Acrocylindrium, purification and properties of. 7239
  from Aspergillus clavatus 1816, specific inhibitor of. 5342
  from Aspergillus pallidus, character and mode of action of. 754
  from Entamoeba histolytica in axenic culture, activity of. 3341
  from Fusarium moniliforme, isolation and properties of. 5353
  Penicillium brevicompactum, purification of. 4118
  from Rhizopus, purification and properties of. 2590
  of Rhizopus niveus, action pattern of. 4768
  of yeast, macromolecular inhibitor of mediated through purine nucleotide. 6103
**RNase (acid),** in Coprinus, function of in autolysis. 1405
**RNase (extracellular),**
  of Aspergillus pallidus, purification and properties of. 755, 1414
  control of by cesium and citric acid cycle intermediates. 746
  of Fusarium semitectum, purification of. 2629
**RNase (guanylic acid specific),** from Aspergillus fumigatus, characterization of. 5343
**RNase (latent),** in Aspergillus niger conidia, studies of. 144
**RNase (pancreatic and $\text{T}_1$),**
  complete digestion of aspartate tRNA from Brewer's yeast with. 4069
  partial digestion of aspartate tRNA from Brewer's yeast with. 4070
**RNase (soluble),** from yeast cells in the stationary phase of growth, purification and properties of. 7226
**RNase A (bovine pancreatic),** reduction of nucleic acid content in Candida by. 714
**RNase secretion (extracellular),** by Ustilago hordei. 2615
**RNase $\text{U}_1$,** purification of and properties of. 2616
**Robenidene,** study of the mode of action of. 1558
**Rock,**
  fungal leaching of titanium from. 1831
  germination of basidiospores of Cronartium comandrae on. 4705
**Rock surfaces (terrestrial),** in North Wales, multivariate approaches to the ecology of algae on. 1939
**Rockpools (supralittoral),** in coastal area of Norway, microflora of. 654
**Rocky slope (littoral),** in Southwest Iceland, densities of benthic algae along. 1943
**Rodent malaria,** chemotherapy of. 2310
**Rodents (South African),** Eimeria from. 2294
**Roebuck,** investigations of Coccidia of. 3724
**Roentgen-phase analysis,** of Candida guilliermondi cell walls. 1241
**Rogaland,** a lichen excursion to. 1337
**Romania,**
  contributions to the knowledge of the biogenic elements and phytoplankton associations dynamics in the Frasinet ponds in. 5278

**Romania, contd.**
  Fusarium wilt in wheat and integrated disease control in. 5748
  review of onychomycoses caused by Dermatophytes in. 1693
**Root,**
  associations of microbes and. 6389
  of azalea, comparative pathogenicity of Calonectria theae and Cylindrocladium scoparium to. 7629
  of Calluna vulgaris, production of factor inhibitory to growth of some mycelial fungi by. 5503
  of Japanese radish infected by Peronospora parasitica, microspectrophotometric walls of. 2977
  of Pinus silvestris, growth inhibition of mycorrhizal fungi by volatile organic constituents of. 3805
  of red alder and Douglas-fir, Poria weirii inhibition with phenolic compounds in. 2751
  of strawberry infected with Pythium, histopathology of. 6325
  of wheat, infected with Ophiobolus graminis, study of using fluorescence and electron microscopy. 1759
**Root (corky),** in tomato, resistance to. 6976
**Root canal,** bacteriological examination of. 4742
**Root culture (excised),** flotation of on liquid media. 6727
**Root diseases (fungal),** of young sugar beet plants, prevention and control of. 4610
**Root distribution,** influence on symptom expression of Verticillium wilt of cotton. 3066
**Root exudates** as substrate for Fomes annosus. 376
**Root-infecting soil fungi,** influence of on primary development of sugar beets. 4534
**Root infection** by Ophiobolus graminis, process of. 7634
**Root juices,** of cotton,differential inhibitory action of on isolates of Fusarium oxysporum f. sp. vasinfectum. 4581
**Root microflora** of maize growing in forest-steppe zone of Krasnoyarsk district, effect of mineral fertilizers on. 3814
**Root pathogen** of beans and peas in Washington, Pythium ultimum as. 2988
**Root pathogens (fungal),** in Australian soils, bacteria and Actinomycetes antagonistic to. 2397
**Root pieces of sweet potatoes (cut),** control of soft rot of with 2,6-dichloro-4-nitroaniline. 2991
**Root regions** of Oryza sativa, succession of microflora on. 4620
**Root rot,** see Rot (root)
**Root tip method (excised),** for determining resistance of Pisum sativum to Aphanomyces euteiches, evaluation of. 5068
**Root zone,** of wheat, fungi in. 3089
**Rooting (fungicide air),** of eastern white pine cuttings. 5105
**Rootlets (host),** effect on survival in soil and zoospores of Phytophthora cactorum. 4616
**Rosacea,** treatment of. 1697
**P-Rosaniline,** effect of on kinetoplast of p-rosaniline resistant Trypanosoma evansi. 6681
**Roscoff,**
  algae from. 3888
  reproduction of Ulothrix pseudoflacca in. 610
**Rose,** symptom differences between rose wilt virus and Verticillium wilt of. 3068
**Rose bengal** as selective aid in the isolation of fungi and actinomycetes from natural sources. 6736
**Rose blackspot,** control of in the field with benomyl. 4579
**Roseofungin** effect of on morphology of pathogenic fungi. 7417
**Rot,**
  of banana, control of. 3041
  effect of various storage temperatures on the occurrence of on Shamouti oranges. 6409
  Kiri plants with. 3050
**Rot (annosus root),** photography as aid in estimating tree mortality caused by. 2118
**Rot (apple fruit),** caused by Hormiscium. 7705
**Rot (armillaria root),** in a ponderosa pine plantation in New Mexico. 2332
**Rot (Aspergillus),** of mango fruit in India. 5795
**Rot (Aspergillus flavus boll),** geographical distribution of in experimental plots across the USA cotton belt. 5091
**Rot (basal),** Strelitzia plants with. 3040
**Rot (basal stem),** Ganoderma lucidum as virulent incitant of. 3002
**Rot (bitter),** of apple, epidemiology and symptomatology of. 1109
**Rot (black),** of sweet potatoes, control of with fungicide dips at various temperatures. 1104
**Rot (black root),** caused by Rhizoctonia fragariae in strawberry plants. 521
**Rot (black stem),** of Pelargonium. 6902
**Rot (boll),** absorption and movement of benomyl into cotton bolls and control of. 1130
**Rot (Botrytis strawberry),** timing of benomyl application in relation to control of. 3026
**Rot (brown),** of plum, control of with new piperazine derivative fungicide. 6971
**Rot (brown root),** of tobacco caused by Pyrenochaeta lycopersici. 1145
**Rot (brown stem),** of soybean, influence of air temperature on. 3027
**Rot (charcoal),** of Abelmoschus esculentus, studies on. 6970
**Rot (Cercosporella foot),** influence of date of

**Rot (Cercosporella foot), contd.**
seeding on control of with benomyl. 5099
**Rot (charcoal),** of cucurbits, studies on. 5117
**Rot (collar),** of groundnut, efficacy of fungicides in the control of. 6354
**Rot (crown),** in wheat, specialised form of Fusarium graminearum responsible for. 1779
**Rot (crown and root),** of birdsfoot trefoil in Alberta. 5757
**Rot (dry),** of guava fruits in South India, Diplodia natalensis causing. 7660
**Rot (firm head),** of broccoli. 3790
**Rot (foot),**
of citrus trees. 5073
on citrus trees, occurrence and development of. 2984
**Rot (fruit),** of papaya. 3787
**Rot (Fusarium root),**
on young asparagus plants. 6958
of selected forage legumes in the northeast of America. 1142
**Rot (Fusarium and Thielaviopsis root),** in beans, relationship between genes controlling resistance to. 5111
**Rot (kernel and ear),** hypersusceptibility of high-lysine corn to. 3836
**Rot (Macrophomina stem),** of grapevine in Tamil Nadu. 7669
**Rot (neck),** of apple trees. 3063
**Rot (oil palm stem),** influence of type of planting material and of mineral nutrition on. 1796
**Rot (Penicillium fruit),** development of during storage of apples. 5798
Rot (Phytophthora),
effect on yield and chemical composition of soybean seed. 2982
soybean resistant to. 5715
**Rot (Phytophthora foot),** of black pepper in Brazil and Puerto Rico. 4540
**Rot (Phytophthora stem),** of passion fruit in South Africa. 4539
**Rot (pole),** of flue-cured tobacco in Ontario, Rhizopus arrhizus causing. 5789
**Rot (preharvest microbial),** of yams. 3107
**Rot (Pythium root),**
on chrysanthemums, etiology and chemotherapy of. 2987
description and control of in foliage plants. 5074
**Rot (red),**
air pressure incorporation of fungicides into short stalk sections of sugar cane for the control of. 6952
study of polyphenols in sugar cane in relation to. 5721
**Rot (Rhizina root),** of Douglas-fir seedlings planted on burned sites in Washington. 6916
**Rot (Rhizome and stem),** of peppermint caused by Phoma strasseri. 2376
**Rot (rice stem),** recognition and control of. 3055
**Rot (root),**
and growth inhibition of orange seedlings, importance of Phytophthora and aeration in. 2985
of pea, caused by Aphanomyces euteiches, residual dexon and the persistent effect of soil treatments for control of. 1161
in Pinus elliottii. 2999
of selected forage legumes in the northeast of America. 1142
of sugar beet in Iran, Phytophthora and Pythium causing. 1100
caused by Thielaviopsis, effect of transplanting tobacco seedlings in pea pots on plant vigour and on susceptibility to. 6363
**Rot (root and basal stem),** of grapevine caused by Thielaviopsis basicola. 6364
**Rot (root and crown),** breeding of sugarbeets for combined resistance to leaf spot, curly top and. 1148
**Rot (seed),** fungicidal control of in rice by insecticidal seed treatment. 5167
**Rot (soft),** control of in cut root pieces of sweet potatoes with 2,6-dichloro-4-nitroaniline. 2991
**Rot (stem),**
of coconut palm. 3051
of corn, effect of carbofuran on. 327
influence of nutrition on in Zea mays. 1137
of jute, varietal reactions of mutants and their mother variety to. 5750
of peppermint caused by Phoma strasseri. 2376
**Rot (storage),** of tomato caused by Geotrichum candidium. 3837
**Rot (strawberry fruit),** caused by Colletotrichum fragariae. 7656
**Rot control (wheat foot),** benomyl rates and application time for. 6951
**Rot fungus (brown),** occurrence of in New Zealand. 6337
**Rot fungus (collar),** sturt pea as host for. 1754
**Rot fungus (rice stem),** morphology, taxonomy and sexuality of. 6445
**Rot fungus (root),** growth of as affected by osmotic and matric water potentials. 4548
**Rot potential (groundnut pod),** in 3 crop rotations as indicated by relative Pythium population in soil. 6379
**Rotarians,** relative importance in activated sludge. 694
**Rotary system** for calibrating flow-meters used for plankton sampling. 6716
**Rotational level,** of two diatoms split from four-atomic complex, analytical study on statistical theory including angular momentum

**otational level, contd.**
  conservation for population distributions among. 925
**otenone**, acquisition and loss of sensitivity in Torulopsis utilis to. 339
**oter brenner**, benomyl activity against. 5082
**otsee**, nitrogen cycling and primary production in. 1316
**otsee (polytrophic)**, ecological parameters in. 3249
**otting**, of fresh figs after harvest, observations on. 7016
**otylenchus uniformis**, interaction with Fusarium oxysporum f. pisi race 1 on peas. 3048
**ough colony**, in homothallic yeast, genetic analysis of. 7484
**ovamycin**,
  activity of on zoites and cyst development of Toxoplasma gondii in mice. 5708
  treatment of experimental Toxoplasma gondii infection with. 1091
**ubber**, in Malaysia, changing aspects of diseases of. 6927
**ubber estate** in Kerala, new genus of phragmosporous Phaeostilbeae from. 6468
**ubber tissue**, adaptability to Phytophthora palmivora. 497
**ubella**, serological detection of. 7521
**Rubelose'** of citrus trees. 6340
**ubidium**, absorption in Chlorella pyrenoidosa plasmalemma. 371
**ubratoxin B**,
  cytotoxic effects of on HeLa cells. 3386
  toxicity of to fungi. 5506
**umen**,
  of cattle given restricted amounts of barley diet, effects of ciliate protozoa in. 4750
  effect on lambs fed on roughage concentrate diet of absence of ciliates in. 492
  parameters of fermentation in in a continuously fed sheep. 1352
  protozoa in, comparison of techniques for counting. 367
**umen digesta**, fate of carbon passing through the glucose pool of. 1463
**umen liquor (strained)**, of lactating cows fed with cluster bean and pigeon pea fodder, microbial population of. 5938
**umen microorganisms** in growing zebu calves, influence of ration and rumen inoculations on. 7378
**umex crispus**, control of with Uromyces rumicis. 1772
**uminal infusion** of acetic acid and sodium acetate, effect on the concentrations of ciliate protozoa. 4865
**ust**,
  of barley leaf, sensitivity to external environment and physiologic specialization. 2340
  of carnation, in vitro culture of. 2781
  caused by Puccinia butleri, structure of Launaea asplenifolia infected with. 1120
  of cereal, gradients in horizontal dispersal of uredospores of. 3972
  of coffee, eradication of coffee in a previously infected area in Papua. 1764
  control of Rumex crispus with. 1772
  genotypic variation as basis for somatic hybridization in. 395
  of grass in North America, life cycles of. 626
  on groundnut in India. 5732
  on groundnut leaves near Madras. 5731
  on peach and almond, caused by Taphrina deformans. 1115
  of peanut in Georgia, distribution and significance of. 6932
  Phaseolin accumulation in bean in response to infection by. 2346
  of Phaseolus vulgaris, control of. 3015
  primary structure of cytochrome c from. 7340
  Puccinia hysterium on Tragopogon as a new North American record of. 6937
  reaction of wild Carthamus to in Israel. 1765
  records of Mycodiplosis larvae feeding on. 503
  of red currants, correlation between intensity and frequency in. 5078
  resistance in coffee to. 1763
  of southern maize, distribution in Africa and pathogenicity of. 660
  of soybean, identity and nomenclature of from India. 5209
  on Strophanthus in West Africa. 6549
  of sunflower, application of thin-layer chromatography to the study of variation of Puccinia helianthi causing. 7339
  of wheat, investigations on the chemical composition of spore and germ tube walls of uredospores of. 5304
  of wheat, in north-eastern Australia, uredospore movement and observations on the epidemiology of. 6345
  of wheat, sporulation pathogenicity of Australian isolate of. 2499
**Rust (black)**,
  threat to improved wheat vars from. 2335
  ultrastructural alterations in chloroplasts of wheat leaves infected by. 1768
**Rust (blister)**,
  influence of on inorganic solute concentrations in western white pine. 4552
  resistance of Pinus monticola to. 504
**Rust (brown)**,
  of barley. 7642
  damage caused to winter wheat by. 3011
  incidence of in transplanted wheat as affected by nitrogen, phosphorus and potassium fertilizers and crop rotations. 5083

**Rust (brown), contd.**
  infection experiments with in Bohemia. 3007
**Rust (comandra),** on southern pines. 4551
**Rust (crown),**
  from Arrhenatherum elatius, in vitro culture of. 2119
  horizontal resistance of red rustproof of oats to. 7640
  modification of tolerance of oats to by mutation induced by ethyl methanesulfonate. 1121
  of oat, in Canada. 7639
  of oat, pathogenicity of isolates of in USA. 3004
  of oat, race differentiation. 394
  susceptibility of tall fuscue to. 4556
  tolerance of contemporary oat cultivars to prevalent races of. 3003
**Rust (crown and brown),** of oat and wheat, survey of estimation of losses caused by. 3074
**Rust (flax),** nutritional studies with axenic cultures of. 4936
**Rust (fusiform),**
  affect of on planted slash pine. 6928
  in planted slash pines, influence of site preparation and spacing. 5079
**Rust (general yellow),** effects of infection with on $^{14}$ carbon assimilation, translocation and growth in spring wheat. 3012
**Rust (leaf),**
  of wheat in Canada. 6938
  of wheat, in North Dakota, virulence and potential destructiveness of. 3763
  of wheat, physiologic specialisation and sources of resistance to in Kenya. 3009
**Rust (leaf and stem),**
  resistance of hexaploid wheat cultivars to. 1769
  of wheat, race identification and distribution of in Iraq. 3010
**Rust (seedborne),** of safflower, control of with nonmercurial seed protectants. 3022
**Rust (stem),**
  activation of resistance of wheat to. 4559
  in Durum wheat, inheritance of resistance to. 3762
  genetic analysis of resistance to in three cultivars of wheat. 1770
  genetic basis for low coefficient of infection to in common wheat. 7641
  of oat in Canada. 6934
  of oat, in the USA during 1970. 2339
  of pine, occurrence of Tuberculina maxima of. 523
  of wheat, barley and rye in Canada. 6933
  of wheat, elimination of in North America. 2337
  of wheat, folate and polyamine content of uredosporelings of. 203
  of wheat, localisation and enzymatic activities of Uredospore wall proteins of. 2651
  of wheat, physiological races of in Canada. 1622
  of wheat, physiologic specialization and epidemiology of in East Africa. 4558
  of wheat, sterols of non germinating and germinating uredospores of. 4557
  of wheat, stimulation of germination of uredospores of by n-nonanal and related compounds. 4254
  of wheat, Triticum timopheevi as source of resistance to. 3006
  of wheat, unrecognized source of overwinteri
  of in the US. 2338
**Rust (stem and crown),** of oats, effect of plantvax emulsifiable concentrate on. 5733
**Rust (stem and leaf),** of wheat, effects on genotype-environment interaction for yield. 2336
**Rust (stripe),** in wheat, additive resistance to. 3765
**Rust (western gall),**
  Doiryctria banksiella in. 3276
  effects of secondary fungi on the epidemiolog
  of. 6343
**Rust (yellow),**
  in corn, prevention of spread of by weather. 1151
  fear of summer outbreak in winter wheat. 17
  reaction of genetic stocks of hulless barley to
  6939
**Rust (Zitsua),** control of in lawn grass by remov
  of mower clippings. 2341
**Rust (Zoysia),** conditions affecting the developm
  and perpetuation of. 5085
**Rust epidemics (natural),** in wheat nurseries as affected by inoculum density. 6936
**Rust fungi,**
  coevolution of and their hosts. 2347
  on Compositae in Mexico. 7638
  of flax,pathogenicity and developmental differences of 3 saprophytically growing isolates of. 1921
  on Pinus pinaster. 7637
  in Poa pratensis, effect of chemotherapy by thiazole compound. 3021
  post-glacial migration of to north Europe. 71
  from Rhineland. 3266
  in vitro assay of aureofungin against. 910
**Rust-infected flax,** ultrastructural specilization
  the host-pathogen interface in. 4554
**Rust-infected tissues** of flax and sunflower, ultrastructural changes in. 7635
**Rust infected wheat leaves,** defence reaction induced by lysine in. 5735
**Rust infection,** effect on Marquis wheat grain proteins. 2342
**Rust inoculum (air-borne),** over western Canada. 6940

**Rust menace,**
  to coffee in Brazil. 6941
**Rust pockets,** frost needed to kill. 1771
**Rust races (leaf),** in wheat var Bowie, relationship between genes conferring resistance to. 6348
**Rust resistance (fusiform),** in slash X shortleaf pine hybrids. 3767
**Rust resistance (leaf),**
  in common wheat, chromosome location of 3 genes for. 2177
  inheritance of in common wheat. 5084
**Rust uredospores (flax),** rRNA synthesis and ribosome formation during germination of. 4076
**Rust uredospores (stem),** properties of germination inhibitors from. 2677
**Rust uredospores (wheat stem),** identification of germination self-inhibitor from. 870
**Ruthenium red and violet,** plasma membrane and extraneous coats in amoebae with. 3181
**Rutin,** degradation of by Aspergillus flavus. 6602
**Rye,**
  effect of pollen on saprophytic mycoflora in phyllosphere of. 3793
  resistance of to snow mould. 3070
  stem rust of in Canada. 6933
  use of Voronit and other seed dressers to control snow mould of. 3042
**Rye ergot derivatives,** clinical aspects of intoxication by. 3625
**Ryegrass,**
  blast fungus causing death of. 7670
  seasonal incidence of stripe smut on. 5090
**Ryegrass (perenial),** effects of grazing or cutting on microflora of the soil. 5151

# S

**S period,** in Physarum polycephalum, control of DNA replication by protein synthesis at defined times during. 702
**Sabouraud agar (diluted),** sexual reproduction of Arthroderma and Nannizzia on. 2487
**Saccharides (free),** in higher fungi, identification of. 2017
**Sacoglossan opisthobranchs,** symbiosis in. 7688
**Safflower,**
  Phytophthora-infected, antifungal polyacetylene compound from. 1095
  relationship of safynol and dehydrosafynol accumulation to Phytophthora resistance in. 7620
**Safynol accumulation,** relationship of to Phytophthora resistance in safflower. 7620
**Saint Kilda,** agarics of. 4734
**Saint Lawrence Estuary,** list of benthic marine algae of. 3263
**Saint Lawrence Gulf,** catalogue of benthic invertebrates of. 4061
**Saint Lawrence River,** yeast as indicator of pollution in. 547
**Saint Margaret's Bay,** overall change in abundance of ciliates in. 686
**Sake yeasts,** selection of non-foaming mutants of. 972
**Salamander (tiger),** coccidia from in northeastern Colorado and northern New Mexico. 6558
**Salami,** potential production and detoxification of penicillic acid in. 7319
**Saline extract** of Chlorella pyrenoidosa-$^{14}$C, arginine-rich polypeptides in. 6614
**Salinity,**
  effect on Chytridiales and Blastocladiales. 1510
  effect on diatom flora. 3253
  effect on form of Asterocytis in pure culture. 2715
  effect of on vertical distribution and growth of assemblages of attached estuarine diatoms. 7350
  ordination of phytoplankton populations in ponds of varying in. 7170
  relation to polymorphism in Cyclotella cryptica. 295
**Saliva,**
  diurnal variation of Candida albicans counts in. 4740
  extent of variation in daily counts of Candida albicans in. 5926, 6553
**Salivarian trypanosomes** isolated from wild tsetse flies, transmission of. 5055
**Salivary components** of human carious dentin. 7556
**Salivary gland,** of female ticks, fine structure of the merozoites of Babesia ovis in. 3721
**Salivary gland (normal),** induction of immunity in malaria by. 6804
**Salmon (coho),** myxosporidiosis in. 5688
**Salmonella typhimurium,** formation of a factor lethal for on incubation of aflatoxin B1 with rat liver microsomes. 1480
**Salmonella typhimurium mutants,** comparison of chemically induced reversion patterns of with Saccharomyces cerevisiae mutants. 4385
**Salmonid community,**
  of Lake Huron, effects of exploitation, introductions and eutrophication on. 6528
  in oligotrophic lakes, effect of eutrophication on. 6529

- **Salt,**
  - properties of Euglena gracilis cytoplasmic ribosomes in. 4243
  - sexual reproduction of Arthroderma and Nannizzia with or without. 2487
- **Salt flat fauna,** nutrient enrichment of and. 7019
- **Salt tolerance** of terrestrial fungi. 309
- **Salt ,** effect on marine phycomycetes. 1509
- **Salt (common),** effects on Euglena gracilis bioassay of vitamin $B_{12}$. 4847
- **Salt (pentavalent),** inhibitory action of on the mitogenic properties of embryonic tissue as seen in Ophryoglena mucifera. 4285
- **Saltatory movements** and cytoplasmic streaming in polarized intracellular particles transport. 6422
- **Sample (small),** simple microlayer method for. 6715
- **Samplers (Gulf III and bongo zooplankton),** size selectivity of. 4341
- **Sampling** of benthonic foraminifera. 4045
- **Sampling (plankton),** rotary system for calibrating flow-meters used for. 6716
- **Sampling methods (discrete),** for study of analysis of pattern in communities of Bryozoa. 5523
- **Sampling time,** influence of on rhizosphere microflora. 3098
- **Sandal,**
  - chemical control of spike disease of. 5135
  - response of spike disease of to Benlate treatment. 6336
- **Sand-dune soil,** critical analysis of fungi in. 4627
- **Sandfly,**
  - enzootic cutaneous leishmaniasis in eastern Panama in relation to. 4963
  - liver and yeast as larval diets in colonisation of. 3104
  - pylorus of in relation to the presence of Leishmania. 675
- **Sandfly (Californian),** Trypanosoma gerrhonoti in. 131
- **Sandfly (wild Californian),** Trypanosomes in. 130
- **San Juan Islands,** occurrence and distribution of zoosporic fungi and Actinomycetales in coastal soils of. 4629
- **Saponins (lucerne),** fungistatic activity of as related to sterols. 7397
- **Saprobic sequence** with the genus Vorticella. 4057
- **Saprophytes,**
  - effect of $\beta$-propiolactone on. 4264
  - effect of organo-mercury fungicides on. 907
- **Saprophytic activity (competitive),** of Sclerotium rolfsii in soil, factors affecting. 4623
- **Saramycetin,** effect on the fine structure of Histoplasma capsulatum. 2095
- **Sarcoidosis,** response of cryptococcal prostatitis in to 5-fluorocytosine. 6825
- **Sargassan,**
  - in brown algae, molecule fragmentation of. 811
  - of brown algae, Smiths degradation of. 812
- **Sargasso Sea,** annual cycle in quantity and composition of zooplankton of. 691, 4059
- **Sargasso Sea surface,** plastics on. 4019
- **Sausage (German),** discolouration with Penicillium expansum. 535
- **Sausage (mould-fermented),** potential production and detoxification of penicillic acid in. 7319
- **Sawfly,** control of in Poland with use of new fungicides. 2330
- **Scab,**
  - of apple, correlation between intensity and frequency of. 5078
  - of kiri. 6362
  - on the twigs of flowering crab apples. 5728
- **Scab fungus,** infection of Yarlington Mill apples by 2331
- **Scales,**
  - in Hymenomonas, formation of. 2431
  - of Pleurochrysis scherffelii, characterization of the alkali-stable material from. 6029
- **Scalp,** Microsporum equinum infection of in adults. 3647
- **Scalp mycetoma** in Africans. 3649
- **Scaly weaver,** Aspergillus fumigatus infection in. 1056
- **Scandinavia,** Physcia dimidiata of. 673
- **Scarring (peripheral and peropapillary),** patterns of in persons with nonmacular presumed ocular histoplasmosis. 5627
- **Sceloporus occidentalis,** transfer of Heptazoon to. 4518
- **Schistocerca gregaria,** infection and reinfection by eugregarines. 1745
- **Schistosoma mansoni,**
  - concurrent infection of white mice with Trypanosoma cruzi and. 1072
  - improved apparatus for the maintenance of in continuous flow medium. 4931
- **Schistosomiasis,** work of the World Health Organisation in. 2848
- **Schizogony,**
  - of Eimeria maxima in the chicken. 2506
  - of Eimeria necatrix, ultrastructure of the centriole and centrocone during. 3932
  - of Eimeria tenella, comparative cytophotochemical investigation of the dynamics of cytoplasmic RNA in. 5316
  - of Leucocytozoon in corvid birds. 2300
  - of small schizonts of Eimeria stiedae, electron microscopic structure studies on. 7131
- **Schizogony (deep vascular),** of Plasmodium knowlesi in Macaca mulatta. 2308
- **Schizogony (synchronous),** in Plasmodium chabaudi, synthesis of desoxythymidylate synthetase and dihydrofolate reductase

**Schizogony (synchronous), contd.**
 during. 785
**Schizonts,**
 of Eimeria alabamensis, fine structural aspects of development of in cell cultures. 5254
 of Eimeria falciformis, fine structure of. 6476
 of Haemoproteus columbae, fine structure of. 3938
**Schizonts (first- and second-generation),** of Eimeria magna, development of in cell cultures. 2505
**Schizonts (intracellular),** morphology and distribution of in chickens experimentally infected with Akiba caulleryi. 1740
**Schizonts (small),** of Eimeria stiedae, electron microscopic structure studies on the schizogony of. 7131
**Schizophrenic patients,** use of Protozoa as test organisms for studies of toxic effects of serum from. 6143
**School biology,** microorganisms in. 3852
**Sciaphilic populations (deep water),** on a hard substrate. 1945
**Sciaphilic populations (benthic),** at the Western Mediterranean, analytical structural and experimental bionomic research on. 1306
**Scillarenin,**
 oxygenation of by Rhizopus. 2043
 structure elucidation of the products of the microbial oxygenation of. 2044
**Scillarenone,**
 oxygenation of by Rhizopus. 2043
 structure elucidation of the products of the microbial oxygenation of. 2044
**Scillaridin,**
 oxygenation of by Rhizopus. 2043
 structure elucidation of the products of the microbial oxygenation of. 2044
**Scindapsus aureus,** description and control of Pythium root rot on. 5074
**Scintigraphic resolution** of the amebic liver abscess, period of. 2922
**Scintillons,** in Gonyaulax polyedra, physical identity of. 7084
**Scirpene mycotoxin,** of Fusarium nivale, antiprotozoal activity of. 6640
**Sciurus carolinensis,**
 Eimeria lancasterensis from. 4052
 Eimeria ontarioensis from. 1962
**Sclerotia,**
 biological control of in soil. 5766
 of Botrytis cinerea, comparative sensitivity to $\gamma$ radiation of. 7388
 of Botrytis convoluta, environmental factors regulating in the production of conidia by. 5474
 of Botrytis convoluta, repeated germination of to produce successive crops of conidia. 6123
 of Claviceps purpurea, effect of temperature on germination and ethanol soluble carbohydrate physiology of. 2719
 of Helminthosporium maydis race T, formation of on corn seed. 2364
 promotion of biological control of Sclerotium rolfsii, drying and wetting of. 5479
 of Sclerotium rolfsii, effect of pesticides on production of. 915
 of Sclerotinia sclerotiorum, chemical studies on exudate and development of. 236
 in Sclerotinia sclerotiorum, effect of carbon source on formation of. 1592
 of Sclerotinia sclerotiorum, ontogenetic diversity of. 1866
 of Sclerotinia sclerotiorum, uptake of [$^{14}$C] glucose and loss of water during development of. 2146
 of Sclerotium, effect of metabolic inhibitors and sulphur-containing amino acids on formation of. 1285
 at the soil surface, prevention of ascocarp formation in Calviceps purpurea by fungicides applied over. 7398
 survival of under adverse conditions. 310
**Sclerotia (dried),** of Sclerotium rolfsii, nutrient leakage as biological control of. 5148
**Sclerotium formation (synchronous),** in Sclerotium rolfsii, induction of by lactose and inhibition of by ethanol. 6678
**Sclex,** treatment of flower and branch monilia of stone fruit with. 3783
**Scotch tape method** for trapping and examination of airborne spores. 2128
**Scotland,** see UK (Scotland)
**Screening (rapid),** of preservatives for pharmaceutical and cosmetic preparations. 1574
**Screening program** of antitumour antibiotics, microorganisms as test-objects in. 5553
**Scum** at the surface of lagooned wastewater, microbiology of. 7712
**Scurf (sweet potato),** effect of fungicide dips at various temperatures on the occurrence of. 5118
**Sea,**
 dissolved carbohydrates of some biotopes in the littoral zone of. 5912
 interactions of light and inorganic nitrogen in controlling nitrogen uptake in. 5464
 laboratory studies related to zooplankton production in. 4938
 marine fungi on polyurethane covered plates submerged in. 1335
 phase division and cytological characteristics of Pyrocystis for estimation of doubling times of their populations in. 5236
**Sea (various),** content of Na, K and Ca in Platymonas viridis cultivated on water

**Sea (various), contd.**
    from. 7354
**Sea campion**, anther smut of, role of growth regulators in dwarfing symptom of. 1127
**Sea pen**, Desmarestia associated with. 2526
**Sea farming** in Pacific northwest, prospects for. 7690
**Seafarer's illnesses.** 1708
**Seafoam**, study of algae and Protozoa in. 3258
**Sealing**, of sampling holes in rindless cheese, comparison of 2 methods for prevention of mould growth. 2793
**Season,**
    influence on organisms infecting untreated southern pine stakes. 1186
    population density of Phytophthora parasitica var. nicotianae in relation to. 7109
**Seasonal characteristics** of phytoplankton in Amursky Bay of the Sea of Japan. 4006
**Seasonal cycle**, of Melosira italica subsp. subarctica in an English lake, artificial alteration of. 643
**Seasonal dependence** of wheat infection with Cercosporella herpotrichoides. 2351
**Seasonal release** of Nectria galligena spores from apple cankers in Northern Ireland. 3754
**Seasonal variation,**
    of dissolved organic carbon in the inshore waters of the Menai Strait in relation to primary production. 4357
    of Petroglossum nicaeense pigments at different light intensities. 6074
**Seawater,**
    for cultivation of Platymonas viridis, reutilisation of nutrient medium prepared using. 2768
    from the Fucus-Ascophylium zone, cytokinin-like activity in. 3406
    influence of changes of components in on the chemical composition of lavers. 1355
    surface charge of particulate matter in. 7721
**Seawater medium**, effect on morphology of Oocystis lacustris. 1303
**Seaweed**, estimation of yeasts on. 663
**Seaweed (specific diatomical)**, of the White Sea, limit changes of in Holocene. 7147
**Secretion**, in Tetrahymena, membrane reorganisation during. 1938
**Sediment,**
    from the central Mediterranean Sea, stratigraphy of based on benthonic foraminifera. 7194
    of Loch Leven, recent diatom history of. 7146
    relationship between organic chalk of the macrobenthos and the amount of chalk in. 7686
**Sediment (boreal transgression)**, diatomaceous algae of of the Vaga river. 3
**Sediment (bottom),**
    of fingerling ponds, Ciliata in. 6393
    of the middle Caspian Sea, diatom algae in. 6994
**Sediment (freshwater)**, vertical distribution of some ciliates in. 135
**Sediment (lacustrine)**, of Pillsbury and Sylvan Lake beds in Northwest Iowa, diatoms in. 4714
**Sediment (marine)**, hydrodynamic method for separation of biogenous and mineral components of. 7456
**Sediment (older and younger)**, of Lake Constance, profundal testacean fauna of. 5298
**Sediment (Upper Klamath Lake)**, solubilization of inorganic phosphates by bacteria from. 6744
**Sediment (White sea bottom)**, diatoms in the surface layer of. 5268
**Sedimentation,**
    influence of physiological conditions of sedimenting phytoplankton on the decomposition process during. 5454
    of iron, manganese and cobalt, role of biological factors in. 4016
**Sedimentation (confined)**, model of. 7145
**Sedimentation properties** of yeast nuclear and mitochondrial DNA. 5945
**Sedimentation system (modified)**, for counting algae with an inverted microscope. 7436
**Sedoheptulose (7-(adenosine-5-pyrophosphoryl)-D)**, synthesis of by Chlorella pyrenoidosa. 3307
**Sedum**, causal organism of purple blotch disease on. 7126
**Seed,**
    of Abrus precatorius, effect of on mitosis and meiosis in the grasshopper and some ciliates. 7392
    of celery, Phoma apiicola on. 934
    of coriander, effect on the growth of pathogenic bacteria. 7413
    of corn, sclerotial formations by Helminthosporium maydis race T on. 2364
    evidence for longevity of in permafrost. 4744
    of flax, infestation with Polyspora lini in Alberta in. 518
    mildew-treated, for reduction of infection. 1116
    in Oregon, Pithomyces chartarum isolated from. 1956
    of peas, predisposition to pre-emergence mortality in soil in. 500
    of safflower, control of rusting with nonmercurial seed protectants. 3022
    of soybean, effect of phytophthora rot on yield and chemical composition of. 2982
    of soybean, Thielavia basicola and Pestalotia in. 2544
    of sunflower, evaluating condition and

**Seed, contd.**
  storability of. 1815
  of sunflower, moisture content of in relation to invasion by storage fungi. 5162
**Seed borne fungi,**
  of okra and their control with fungicide. 4585
  role of on deterioration of quality of gingelly seeds. 5799
  of stored groundnut, studies on and control with metadinitrobenzene. 4645
**Seed borne infection** of Helminthosporium maydis, importance to New Zealand of. 6966
**Seed borne pathogens** of maize, toxicity of systemic fungicides against. 2355
**Seed borne plant diseases,** threat from. 3076
**Seed borne Septoria lactucae,** eradication of from lettuce with aerated steam. 5754
**Seed dressings,**
  to control Helminthosporium sativum foot-rot of wheat, evaluation of. 2366
  to control snow mould of rye. 3042
**Seed Dressings 6335/6334,** efficacy of in controlling collar rot of groundnut. 6354
**Seed fungicides,** activity of for control of cotton seedling diseases. 3059
**Seed mycoflora** of pearl millet, effect of fungicides on. 4560
**Seed plants (non-leguminous),** in southern Africa, symbiotic nitrogen fixation by. 5276
**Seed preharvest deterioration (cotton),** influence of fungi on. 3109
**Seed and soil treatment (chemical),** influence of on Verticillium-induced yield reduction and tuber defects. 6365
**Seed testing station's role** in the testing of fungicides. 7005
**Seed treatment,**
  of barley and oats in South Carolina, results of. 3016
  in England, incidence of sugar beet seedling diseases and effects of. 5119
  new aspects of. 3071
  with thiabendazole, control of common and dwarf bunt of wheat by. 1123
**Seed treatment (sweet potato),** TBZ for. 4607
**Seed treatment (insecticidal),** fungicidal control of seed rot and seedling diseases of rice by. 5167
**Seed treatment (vitavax),** effect on yield of barley and wheat. 2345
**Seed treatment fungicide (sweetpotato),** evaluation of thiabendazole as. 5075
**Seeding,** influence of date of on control of Cercosporella foot rot with benomyl. 5099
**Seedling (Gossypium arboreum),** effects of nitrogen compounds on resistance of to Colletotrichum gossypii. 3775
**Seedling (Katsura-tree),** Dothiorella causing wood discolouration in. 3037
**Seedling (wheat),** infection of by Septoria nodorum in relation to environmental factors. 2379
**Seedling anthracnose,** susceptibility of Gossypium to. 3032
**Seedling disease** in sugarbeets. 1753
**Seedling emergence,** microflora of buckwheat seed, changes in storage and effect of seed treatment on. 5796
**Segment '29'** in Podospora anserina, consequences of double cross-over detections on the functional interpretation of. 7481
**Segregants,** from a Penicillium chrysogenum heterozygous diploid following different physical and chemical treatments. 981
**Segregants (stable haploid),** of Dictyostelium discoideum, selection of. 4374
**Segregation (mitotic),** in polyploid Saccharomyces cerevisiae. 6200
**Selenium,** concentration in marine algae and its importance as trace metal for the growth of larva. 3528
**Selenium compounds (synthetic organo-),** use of experimental animal model as test for. 6284
**Selenium sulphide treatment** of tinea versicolor. 3648
**Selenium-sulphur antagonism,** studies of in blue-green algae. 2806
**Semi-arid areas,** irrigation and leaf disease in. 494
**Semicarbazide,** effect on dimorphism in Verticillium albo-atrum. 2760
**Semicarbazone,** failure of aerial application of to control hypoxylon canker in aspen. 1110
**Seminal fluid,**
  effect of Fusarium graminearum in production of in ganders and turkeycocks. 467
  Trichomonas vaginalis and. 5638, 6833
**Seminal fluid (human),** examination of for Toxoplasma gondii. 2142
**Senegal,**
  canine leishmaniasis in. 7591
  parasitological investigation in a serera community of. 7497
  telluric keratinophillic Gymnoascaceae from. 123
**Senescence (cellular),** in yeast caused by carbon-source starvation. 7468
**Sensitins,** from Coccidioides immitis, fractionation and composition studies of skin test-active components of. 814
**Sensitivity,** to rotenone, acquistion and loss of in Torulopsis utilis. 339
**Sensitivity (atopic),** to algae and lichens. 2223
**Sensitivity (specific),** in residents of Venezuela for paracoccidioidomycosis. 1667
**Sensory mechanism** in Paramecium. 7381
**Separation** and analysis of specific fractions. 2868

**Sephadex**, separation of inhibitory serum ultrafiltrates from malaria-infected monkeys and mice by. 489
**Sephadex G-200** bound to Cibacronblau, affinity chromatography of yeast pyruvate kinase with. 4783
**Sepsis** by intravenous infusion. 5010
**Septicaemia (Candida)**,
  associated with hyperalimentation. 2231
  survival of after treatment with amphotericin B. 6817
  after total cystectomy and colostomy for bladder carcinoma. 6820
  after total cystectomy and coloplasty for carcinoma of the bladder. 6824
**Septicaemia (double streptococcus and candida)**, after abortion. 2885
**Septicaemia (fungal)**, complicating parenteral feeding. 1678
**Septum**,
  in Coprinus lagopus common A diploid strs, structure of. 393
  of Dimargaritaceae and Kickxellaceae, histochemistry of. 7063
**Septum formation**,
  an enzymatic mechanism for the initiation of. 86
  of Microdictyon okamurai. 6488
**Serengeti National Park**, incidence of trypanosomes in wild carnivores in. 4408
**Serera community**, of Senegal, parasitological investigation in. 7497
**Serine**, incorporation into the phospholipids of Neurospora crassa. 196
**Serine biosynthesis**, in Saccharomyces, genetic and physiological control of. 2838
**Serine residue (reactive)**, of the di-isopropyl phosphorofluoridate-sensitive plant carboxypeptidase and a yeast peptidase, radiochemical determination of a unique sequence around. 5991
**Serodiagnostic studies** on Citrus with respect to resistance to Phytophthora citrophthora. 2111
**Serologic changes** associated with encystment of axenically growth Hartmannella culbertsoni. 3983
**Serological diagnosis**,
  of German measles and toxoplasmosis. 7521
  of extracutaneous sporotrichosis. 2210
**Serological evidence** of Toxoplasma infection in isolated groups of sheep. 4416
**Serological study**,
  of the immunological behaviour of children's neoplasms. 1012
  on resistant and susceptible water-melon vars to Fusarium semitectum. 1002
  of toxoplasmosis in Puerto Rican children. 4434
**Serological survey** of Besnoitia besnoiti infection in Israel, by immunofluorescence. 7595
**Serological tests**,
  for detection of blood parasite infections, current state of. 4989
  for parasitic diseases causing splenomegaly in Brazilian indians. 992
  simplified identification of yeasts by. 6721
  studies of the applicability of to differential diagnosis of cattle trypanosomiasis in Africa. 5600
**Serology**,
  of Candida infections. 7506
  of Dermatophilus congolensis, comparison of strs from different animals. 1029
  in tests for parasitic diseases. 365
  in yeast classifications. 5594
**Serotonin activation** of adenyl cyclase from Tetrahymena pyriformis. 7262
**Serotype system (St)**, in Tetrahymena pyriformis syngen 1, genetics of. 6215
**Serotypes (leishmanial)**, as distinguised by the gel diffusion of factors excreted in vitro and in vivo. 7508
**Serotypes G**, of Paramecium aurelia syngen 1, allelic modulation in. 1633
**Serum**,
  of animals experimentally infected with Trypanosoma, indirect haemagglutination test with. 7509
  from endotoxin treated rats, effect on isolated Trypanosoma equiperdum. 421
  of patients with Trypanosoma gambiense infection, low molecular weight IgM in. 4977
  from pregnant women, distribution and significance of Candida precipitins in. 6790
  from sheep infected with Aspergillus fumigatus, precipitins in. 6230
**Serum (antilymphocytic)**, effect on Trypanosoma lewisi infection. 422
**Serum (antithymocyte)**, effect on golden hamsters and rats infected with Plasmodium berghei. 2302
**Serum (ferritin-labelled immune)**, use of for the electron microscope study of Strigomonas oncopelti. 5854
**Serum (haemolytic)**, protective effect of on mice infected with Babesia rodhaini. 4980
**Serum (human)**,
  demonstration of Candida precipitins in. 2861
  indirect fluorescent antibody test for detecting antibodies to cysts of Pneumocystis carinii in. 7522
  from schizophrenic patients, use of Protozoa as test organisms for studies of toxic effects of. 6143
**Serum (immune guinea-pig)**, anti-leishmanial activity of. 6791

**erum (normal human)**, influence of on the determination of trichomonicidal drug concentrations. 7420

**erum (rat)**, reaction of mouse to infection with Trypanosoma lewisi and. 1006

**erum (transferred)**, protective effects of and cells investigated in chick embryo infected with Eimeria tenella. 1665

**erum components** of human carious dentin. 7556

**erum titres** in the dye-test, immunological response to toxoplasmosis in São Paulo as evaluated by distribution of. 7516

**erum ultrafiltrates**,
  inhibitory activity from malaria-infected monkeys. 488
  inhibitory, Sephadex separation from malaria infected monkeys and mice. 489

**esquiterpene**, from Dictyopteris zonarioides. 3405

**esquiterpene dialdehyde**, from Lactarius, structure of. 3419

**esquiterpenoid metabolites**, of Trichoderma. 2704

**esquiterpenoids**, microbial transformation of. 292

**eston** in the sea surface of inlets of Japan. 4730

**etae**, in Tremella fuciformis, nature of. 37

**eto Inland Sea**, Eutreptiella and Exuviaella in. 4042

**ettling (differential)**, of planktonic foraminifera. 7193

**ewage**,
  biotin production and utilization during treatment of. 546
  relationship to effect of phosphorus in limiting growth in Lake Lucerne. 1197

**ewage (anaerobically pretreated)**, treatment of by aerobic bacterial disc units. 4654

**ewage effluent (dilute treated)**, continuous culture of natural population of phytoplankton in. 2771

**ewage sludge samples** of Lucknow, occurrence of pathogenic Naegleria aerobia and Hartmanella in. 5804

**ewage treatment lagoons**, phytoplankton energetics in. 3843

**wertzoff morphogenetic principles**, extension and application to Protozoa. 3196

**x**,
  effect on avian aspergillosis. 1634
  effect on invasive amebiasis in the liver. 2921

**x cell contact**, in isogamous dioecious chlamydomonads, sensitivity of to various enzymes. 6644

**x difference** in antibody response of CFW mice to Candida albicans. 5597

**x function**, of Phycomyces blakesleeanus, actinomycete metabolites affecting. 1547

**x hormones** in Neurospora crassa. 1605

**Sex specific growth responses** in yeasts. 1918

**Sexual cycle**,
  in Neurospora crassa, genes affecting. 7479
  of Toxoplasma gondii, host specificity of. 6318

**Sexual phase**,
  in Coscinodiscus asteromphalus. 1261, 1262, 1263
  in Hepatozoon rarefaciens. 1930
  of Plasmodium tropiduri in Tropidurus torquatus. 490

**Sexual phase (photoinduced)**, action spectrum of in Nectria haematococca. 4273

**Sexuality** in Neurospora crassa. 7480

**Sezary's syndrome**, and mycosis fungoides. 2243

**SH-blocking reagent (specific)**, effect on the cyclosis in Paramecium. 3478

**SH reagents**, effect on yeast inorganic pyrophosphatase activity. 3459

**Shade**, influence of on outbreak of Scleroderris lagerbergii. 6920

**Shape**, of desmids and diatoms, simple and rapid technique for surveying. 4321

**Sheep**,
  cellulose digestion in after feeding an extract of Aspergillus oryzae. 1178
  cyclophosphamide in the treatment of mycotic dermatitis of. 2284
  development of Eimeria crandallis from in cultured cells. 6162
  eperythrozoon ovis infection in in Northern Germany. 1744
  experimental myrotheciotoxicosis in. 2281
  ill-thrift of in Nova Scotia. 5150
  indirect haemagglutination test in the study of Trypanosoma vivax infections of. 364
  infected with Aspergillus fumigatus, precipitins in serums from. 6230
  mycotic abortion in produced by Aspergillus fumigatus. 3693
  Phomopsis leptostromiformis causing lupinosis in. 6296
  serological evidence of Toxoplasma infection in isolated groups of. 4416
  trial of killed vaccine in prevention of abortion of. 2219

**Sheep (artificially infected)**, unsuccessful attempt to transmit toxoplasmosis to mice from faeces of. 5066

**Sheep (continuously fed)**, parameters of rumen fermentation in. 1352

**Sheep (Rocky Mountain bighorn)**, in Western Canada, coccidia of. 4412

**Sheep dung**, Coprophilous ascomycetes on. 3086

**Sheep erythrocytes**,
  cytodynamic study of the immune response to in rat infected with Plasmodium berghei. 3621
  of mice infected with Plasmodium berghei, antibody response to. 6238

**Shell (oyster)**, fungal disease of. 1067
**Shell-boring green algae (marine)**, distribution of. 4719
**Shell characteristics** in Diatomaceae, variability of. 3126
**Shock (cold osmotic)**, in Saccharomyces cerevisiae. 304
**Shock-wave technique** to collapse the vacuoles of blue-green algae. 5800
**Shoe**, prevention of mould on. 7703
**Shoe disinfection** for the destruction of foot fungi with peracetic acid. 4303
**Short life** of peach trees, association of Cylindrocladium with in Georgia. 1134
**Short shoot**, of Pinus monticola, fungicidal reaction to Cronartium ribicola. 504
**Shrimp (brine)**, comparative investigations on the toxicity of mycotoxins to the larvae of. 7322
**Shropshire Meres (North)**, ecology of planktonic blue-green algae in. 1291
**Sibling (HL-A compatible)**, treatment of chronic mucocutaneous candidiasis with leucocytes from. 2884
**Siccanochromenes**, isolation and structure of. 2683
**Sickle-cell trait**, association with tropical splenomegaly and Plasmodium falciparum infection. 2263
**Side chain degradation** and 20-($\alpha$+$\beta$)-reduction of progesterone by cell free preparations of Penicillium lilacinum. 7250
**Sideramines**, in Fusarium cubense, biosynthesis of. 211
**Sigmoid colon**,
  examination of in Candida albicans colopathies. 5623
  motility of in Chagas' disease. 452
**Silage (blighted corn)**, effect on beef cattle. 1814
**Silica**, depletion of and algal changes in Lake Michigan. 545
**Silica availability** and formation of dysplastic cells in Ditylum brightwelli cultures. 2809
**Silica gel**, survival and physiological activity of yeast after long storage in. 3471
**Silicoflagellate changes** in a subantarctic deep-sea core, late Pleistocene paleotemperate oscillations defined by. 5295
**Silicosis (respiratory and digestive-tract)**, identification of Trichoporon cutaneum in. 447
**Silkworm larvae** infected with Metarhizium anisopliae, detection of destruxins in. 3701
**Silos (unsealed)**, microbiology of moist barley storage in. 3840
**Silt**, role in Microcystis aeruginosa development. 3238
**Silurian Ischadites hemisphericus**, gametangia of. 5814
**Silver**, effect of on algae. 7360
**Simazine**,
  effect on activity of microorganisms in jack pine humus. 1805
  effect on soil microflora. 5152
  side effects on Erysiphe graminis and Cercosporella herpotrichoides on wheat. 1108
**Simulium larvae**, Penella from. 42
**Simulium vittatum**, with microsporidian infection, ultrastructure of cytoplasm in fat-body cells of. 5706
**Singapore**, malaria outbreak in. 2846
**Sinus**, aspergilloma of. 5614
**Sinus (maxillary)**, mycosis of. 6268
**Sinusoidal currents** with 16-25,000 Hz frequencies effects of on the motion and integrity of some ciliates. 4866
**Siomycin**, from Streptomyces sioyaensis, effect of elemental sulfur on production of. 268
**Siphonaxanthin**, in Microthamnion kuetzingianum. 6050
**Site preparation and spacing**, influence of on fusiform rust in planted slash pines. 5079
**Sitobion avenae**, Entomophthora infection of. 2275
**Sitophilus granarius**, mycetomal microorganisms and total lipid formation and phospholipid formation in. 4035
**Size**,
  of Cyanidium caldarium cultured under pure $CO_2$. 2426
  of desmids and diatoms, simple and rapid technique for surveying. 4321
**Size (algal cell)**, strontium-substitution for calcium in relation to. 4356
**Size selectivity** of Gulf III and bongo zooplankton samplers. 4341
**Skeleton weed**, control of using Puccinia chondrillina. 1767
**Skin**,
  African histoplasmosis of. 6246
  atypical chronic leishmaniosis of. 1033
  changes in in amoebiasis. 1039
  effect of immunosuppression and antigenic competition on the course of infection of wit Leishmania enriettii in the guinea-pig. 4505
  effect of thymectomy on the course of infection of CBA mice with leishmania tropica infection of. 4506
  epidemiology of leishmaniasis of in Iran. 7493
  experimental leishmaniasis of. 7590
  of external auditory meatus, fungal disease implicating. 4442
  follow-up study of vaccination programme agai leishmaniasis of. 6793, 6794
  generalized eruption of in a dog with histological similarity to human mycosis fungoides. 3706

**Skin, contd.**
  of the head, localisation of Microsporon in. 2898
  of the head, localization of Microsporon furfur under as cause of relapses in Pityriasis versicolor. 1672
  high incidence of candidiasis, geotrichosis and tinea versicolor of in Puerto Rico. 6775
  of infants, efficacy of nystatin topical cream in the management of candidiasis of. 5617
  invasive amebiasis of. 2919
  leishmaniasis of. 1034
  leishmaniasis of in Chad. 6832
  leishmaniasis of in eastern Panama. 5296
  leishmaniasis of followed by Kala Azar in adults in Italy. 3656
  local treatment of infections of in children. 7534
  microbial diseases of treated with Lomades N. 3646
  mycoses of caused by Trichophyton rubrum. 2237
  mycoses of caused by Trichophyton verrucosum in Switzerland. 2238
  of normal dogs and cats, pathogenic keratinophilic fungi to man on. 3601
  phycomycosis on. 2874
  primary blastomycosis of. 1671
  primary cryptococcosis of. 1689
  protothecosis of. 2220
  sclerodermiform manifestation of mycosis fungoides of. 6269
  serological diagnosis sporotrichosis of. 2210
  in tests for parasitic diseases. 365
  treatment of diseases of. 1697
**Skin (apparently healthy)**, of domestic animals, isolation of dermatophytes and other keratinophilic fungi from. 4957
**Skin (glaterous)**, presentation of Microsporon canis infection of. 2897
**Skin (healthy and diseased)**, occurrence of fungi on. 2842
**Skin disease**,
  among hairdressers with particular regard to dysidrosis. 6219
  local treatment of. 6267
  in publications in 1970, therapeutic aspects of. 2259
**Skin flora** of infants with napkin rash. 1681
**Skin lesions**,
  in disseminated aspergillosis. 2229
  in Trypanosoma gambiense-infected rabbits, effect of hydrocortisone on. 5053
**Skin parasites**, Prototheca as. 2873
**Skin reaction patterns** to dematiaceous mold allergens. 2206
**Skin response** of normal subjects to histolyticin from Entamoeba histolytica. 4428
**Skin test (coccidioidin)**, by intradermal jet injection. 7504
**Skin test (comparative)**, use of Stemphylium in. 2211
**Skin test (improved)**, for detection of T-2 toxin. 5546
**Skin test (positive)**, to mold antigens, comparison of environmentally cultured molds with. 3645
**Skin test sensitivity** of mycelial growth filtrate of Histoplasma duboisii, biochemical characterization and. 4425
**Skin test sensitivity (histoplasmin)**, in cases of presumed ocular histoplasmosis identified during a community survey. 5626
**Skyrin** from lichens. 4229
**Sleeping sickness**, see Trypanosomiasis.
**Slides (permanent quantitative)**, sliding-chamber phytoplankton settling technique for making. 6713
**Sliding-chamber phytoplankton settling technique** for making permanent quantitative slides with applications in fluorescent microscopy and autoradiography. 6713
**Slime (carbohydratous trapping)**, of Drosophyllum lusitanicum, influence of inhibitors of protein synthesis on secretion of. 4848
**Slime mold chemotaxis test**, comparison with leukocyte chemotaxis test. 928
**Slime mutant**, of Neurospora crassa, ultrastructure and invertase secretion of. 5199
**Slime tracks**, in thraustochytriaceous fungi and Labyrinthula, ultrastructure of. 5190
**Slopes (north and south facing)**, plant disease incidence of forage spp as affected by. 6923
**Slovakia**, distribution of Sarcoscypha coccinea and Bulgaria inquinans in. 6544
**Slovakia (Central)**, Pyrenomycetes of. 1947
**Slow loris**, Eimeria pachylepyron from. 4516
**Sludge (activated)**,
  control of Thiothrix in. 7026
  fate of aluminium-precipitated phosphorus in. 7025
  nitrification and denitrification in. 7023
**Sludge (red)**, influence of on population density of green algae. 7353
**Sludge yield** in aerobic systems. 7030
**Slug (marine)**, photosynthetic products and contribution to mucus synthesis in of symbiotic chloroplasts. 5425
**Small-pox**, work of the World Health Organisation in. 2848
**Smiths degradation**, of sargassan and pelvetian in brown algae. 812
**Smithsonian-Bredin Expedition** to Yucatán-1960, marine algae of. 5918
**Smoke condensate**, analysis of for penicillic acid. 7307
**Smoking**, relation to oral leukoplakia. 1025

**Smut,**
  of corn, caused by Ustilago maydis, genetic control of. 2344
  of corn, investigations of. 4561
  effect on floral induction and development in Poa pratensis. 3020
  effect of fungicides on and seed mycoflora of pearl millet. 4560
  on grasses, general implications of incidence of. 5738
  in Hawaii. 4563
  of maize correlation between initial development and resistance to in maize. 7645
  meiotic products from natural infections of. 1124
  of sugarcane, spore dispersal of. 3973
  systemic activity of 1,1,1-trichloro-3-nitro-2-propanol against in grasses. 1125
**Smut (anther),** of sea campion, role of growth regulators in dwarfing symptom in. 1127
**Smut (loose),**
  control of in wheat. 4562
  effect on yield of barley and wheat. 2345
  of wheat, control of with carboxin and benomyl. 6943
  of wheat, host-parasite relations in. 3017, 3018, 3019
**Smut (stripe),**
  in Merion Kentucky blue-grass turf, evaluation of fungicides for control of. 6942
  seasonal incidence of on ryegrass. 5090
**Smut (Urocystis magica),** prevalence of in onions in Quebec. 506
**Smut fungi,**
  in Poa pratensis, effect of chemotherapy by thiazole compound. 3021
  from Rhineland. 3266
**Smutty corn,** mycelium of Ustilago maydis in tissues of pathological neoplasms of. 2343
**Snail,**
  effects of grazing by on community structure of periphyton in laboratory streams. 5154
  Tetrahymena pyriformis parasitic in the gut of. 69
**Snake haemogregarines,** in vitro culture of vector phase of in mosquito cell lines. 5552
**Snow (mountain),** occurrence of thecate amoebae in. 1342
**Snow algae** in California, observations on. 4717
**Snow mould,**
  resistance of rye to. 3070
  of rye, use of Voronit and other seed dressers to control. 3042
**Soda lakes,**
  of Kanem, phytoplankton of. 1290
  Oscillatoria from. 1293
  phytoplankton of. 109
**Sodium,**
  effect on uptake of amino acids by actidione-treated yeast cells. 6094
  in Platymonas viridis cultivated on water from different seas, content of. 7354
**Sodium 22** in the food chain lichen-reindeer-man. 7034
**Sodium acetate,** effect of ruminal infusion of on the concentration of ciliate protozoa. 4865
**Sodium azide,** effect on rhythmic mycelial growth in Podospora anserina. 625
**Sodium biphosphate,** effect on Euglena gracilis bioassay of vitamin $B_{12}$. 4847
**Sodium chloride,** see also Salinity and Salt .
  effect on Euglena gracilis bioassay of vitamin $B_{12}$. 4847
**Sodium chloride concentration,** growth responses of blue-green algae to. 2707
**Sodium chloride tolerance,** by Anacystis nidulans, inhibition of by DDT. 5495
**Sodium dodecylsulphate,** properties of alkaline protease from Acremonium kiliense in. 6001
**Sodium-EDTA,** effect on sclerotium formation in Sclerotium. 1285
**Sodium fluoroacetate,** effect on rhythmic mycelial growth in Podospora anserina. 625
**Sodium fusidate,** penetration of in the synovial cavity. 7548
**Sodium hydroxide,** use in isolation of fungi from sputum of suspected tuberculosis cases. 325
**Sodium N-methyldithiocarbamate,** control of Fusarium wilt of petunia with. 513
**Sodium-β-methylvalerate-1-14C,** in Aspergillus niger, metabolism of. 205
**Sodium relationships** of Enteromorpha intestinalis. 4203
**Sodium sulphadiazine,** potentiation against pre-erythrocytic stages of Plasmodium falciparum. 1046
**Sodium sulphite,**
  data on the mutagenic action of on yeast. 5490
  effect on biosynthesis of aflatoxin by resting cells of Aspergillus flavus. 4181
**Soft tissue,** infected by Aspergillus niger, localization of strontium 85 in. 1674
**Softening** in olives, fermenting yeasts associated with. 4643
**Soil,**
  from Baghdad, antibiotic properties of fungi isolated from. 4184
  biological control of fungal sclerotia in. 5766
  biological purification of waste waters from papermills by infiltration into. 5144
  of Buenos Aires, contribution to the knowledge of algae in. 6995
  in Buenos Aires province, algae of. 3245
  in closed systems, gas chromatographic determination of carbon dioxide evolved from 4922
  control of Cylindrocladium floridanum with

**Soil, contd.**
    potassium azide in. 3090
  decomposition and binding action in of some mannose-containing microbial polysaccharides and their Fe, Al, Zn, Cu complexes. 6380
  decomposition of DDT by microorganisms in. 1822
  at different above sea-level altitudes, study of acid activity of Aspergillus isolated from. 2051
  distribution of chytrid and chytridiaceous species in in relation to physical and chemical factors. 1333
  of East Africa, soil aeration, nitrogen mineralization and humus production in after drying and moistening. 7003
  effect of nematocides on activities of microorganisms in. 4628
  effect of grazing or cutting perenial ryegrass and white clover sward on the microflora of. 5151
  effect of heat treatment of on Verticillium wilt infection. 3094
  effect of solution and pseudomonads of on sporangium production by Phytophthora cinnamomi. 3083
  effect of temperature of on growth of Macrophomina phaseoli and Sclerotium rolfsii in. 4262
  existence of chlamydospores of Alternaria porri as overwintering propagules in. 3088
  factors affecting competitive saprophytic activity of Sclerotium rolfsii in. 4623
  fumigation of for control of Fusarium wilt of petunia. 513
  germination of conidia of Verticillium dahliae in. 3228
  growth behaviour of Azotobacter chroococcum in in association with some soil microorganisms. 6382
  groundnut pod rot potential in crop rotations as indicated by relative Pythium population in. 6379
  Haplosporella from. 5214
  helically-lobed bacteria from fungal spores in. 3803
  hydroxylations of carbaryl by fungi in. 4225
  improved bioassay for Pyrenochaeta terrestris in. 2787
  induction of sporangia in Phytophthora cinnamomi by. 3453
  influence of on germination of Fomes annosus-spores. 1163
  influence of on outbreak of Scleroderris lagerbergii. 6920
  isolation of Cylindrocladium from. 7683
  isolation of macrocyst-forming Dictyostelium mucoroides from. 6376
  isolation of Naegleria fowleri from. 7006
  of Lamto in the Ivory Coast, fungal microflora of. 6390
  of Mediterranean ecosystems biological activity in. 3819
  method for rapid differentiation of Phytophthora cinnamomi from other Phytophthora isolated from by lupin baiting. 7441
  microbial productivity in. 6388
  morphology of Warcupia terrestris from. 5838
  occurrence of organisms in the Scott Glacier region Queen Maud Range Antarctica. 1159
  in Oregon, Pyrenochaeta terrestris as a naturally occurring component of. 5123
  overwintering of Helminthosporium maydis in midwestern USA in. 529
  predisposition to pre-emergence mortality of peas in. 500
  selective methods of isolation for Phytophthora nicotianae from. 6997
  selective and quantitative technique for analysis of Fusarium in. 2784
  solubilization of ion-containing minerals by microorganisms of. 1166
  sterols in relation to ability of Pythium sylvaticum to survive in. 5558
  treated and infected by Fusarium oxysporum f. sp. dianthi, benomyl migration in carnations cultivated on. 2374
  treatment of for control of Aphanomyces euteiches pea root rot and residual dexon. 1161
  use of translocation of $^{14}C$ by microorganisms in. 530
  of Washington State, survey of Acrasieae in. 4614
**Soil (agricultural),** deficient in assimilable manganese, microbial reduction of $MnO_2$ in. 2388, 2389
**Soil (alkaline),** nature of volatile inhibitor from. 7682
**Soil (Australian),** bacteria and Actinomycetes antagonistic to fungal root pathogens in. 2397
**Soil (central South Carolina forest),** thermophilic fungi of. 5147
**Soil (chitin amended),**
  chlamydospore formation and lysis of Fusarium solani f. cucurbitae macroconidia in. 3978
  mode of inhibition of Rhizoctonia solani in. 1169
**Soil (coastal),** of southwestern British Columbia and San Juan Islands, occurrence and distribution of zoosporic fungi and Actinomycetales in. 4629
**Soil (cultivated),**
  action of N-benzoyl-N-(dichloro-3,4-phenyl)-N' N'-dimethylurate on the microflora of. 1174
  biodynamics of. 1801

**Soil (desert)**, ketocarotenoids from algal mat of. 228
**Soil (Egyptian)**, occurrence of yeasts in. 1170
**Soil (forest)**,
  of eastern Canada, cellular slime moulds in. 7681
  evolution of Rhizopoda Testacea in, under the influence of fertilization. 7687
**Soil (forest and marshland)**, production of antibiotics by fungi isolated from. 5150
**Soil (grassland)**,
  of India, Curvularia verruciformis from. 5767
  of Jabalpur, Phoma exigua from. 4622
**Soil (Hawaiian)**, fungitoxicity in. 3804
**Soil (infected and treated)**, detection of benomyl and Phialophora cinerescens in cultivated carnation stems in. 2373
**Soil (intensively cultivated)**, Fusarium populations of. 3810
**Soil (loam and peat)**, fungicides for preventing clubroot of cauliflower in. 3085
**Soil (Matador)**, of Saskatchewan, yeasts of and their ability to use flavonoids. 1167
**Soil (Mississippi deltaic)**, Protozoa and Algae of. 6394
**Soil (Missouri)**, a new stilbellaceous fungus from. 1881
**Soil (Moroccan)**, microbial ecology in. 6392
**Soil (mountain)**, occurrence of thecate amoebae in. 683
**Soil (Nigerian)**,
  antimicrobial activity of Bacillus from. 3096
  assessment of non-symbiotic nitrogen fixation in by acetylene reduction technique. 3801
**Soil (organic)**, in New York, populations of Fusarium oxysporum f. sp. cepae in. 1168
**Soil (organic forest)**, microbiological response to fertilizer treatments in. 7685
**Soil (paddy)**,
  algal and bacterial non-symbiotic nitrogen fixation in. 5370
  of West Malaysia, Fusarium in. 6384
**Soil (paddy field)**, of India, blue-green algae from. 5264
**Soil (Polish)**, productivity investigations of meadows of. 1171
**Soil (rice)**, inoculated with Tolypothrix tenuis, changes of nitrogen content of. 3799
**Soil (saline)**, in Wyoming, Emericellopsis stolkiae from. 1858
**Soil (sand-dune)**, critical analysis of fungi in. 4627
**Soil (sandy)**, fumigation of Phytophthora in by methylbromide and methylbromide-chloropicrin. 3084
**Soil (salty)**, biological study of. 6383
**Soil (shade and wet)**, influence of on southern corn leaf blight. 5115
**Soil (South African)**, Endogone from. 3265
**Soil (sterilized)**, significance of ethylene in in studies of interactions between micro-organisms and plants. 3820
**Soils (temperate and antartic)**, growth of fungi and bacteria in in relation to temperature. 1319
**Soil (wood)**, resistance against dryness and reactivation of microfauna of. 5489
**Soil aeration**, in East African soils after drying and moistening. 7003
**Soil aggregates**, role of microorganisms in the stabilization of. 1797
**Soil algae** from Ishizuchi mountains in Japan. 5762
**Soil amoebae (free-living)**, simple method for studying nuclear division in. 5585
**Soil applications** of anhydrous ammonia and ammonia-potassium azide solutions, Fusarium foot rot of wheat and peas as influenced by. 4586
**Soil-borne fungi**, disease complexes in tobacco involving. 2989
**Soil-borne fungi (pathogenic)**, ecology of. 2356
**Soil-borne plant pathogens**, analyses involving inoculum density of. 3809
**Soil complex**, study of the stability of antimicrobial compounds in. 1803
**Soil crumbs**, microorganisms in surface films from. 3813
**Soil environmental factors**, effect on disease severity of Sclerotium cepivorum in onions. 3060
**Soil extract**, in Scenedesmus 170, unicells in. 4241
**Soil fertility**, effect on physiology of corn plants in relation to helminthosporiose disease incidence. 1144
**Soil fumigation**, effect of on microbial recolonization and mycorrhizal infection. 7002
**Soil fungi**,
  of an agricultural field in Allahabad, ecological study of. 7001
  of barley field, qualitative and quantitative study of. 3817
  biosynthesis of humic acids during decomposition of wheat straw by. 4624
  degradation of dieldrin to carbon dioxide by. 5771
  effects of on capacity of Mucor alternans to degrade DDT. 7033
  effect of dinitroanilines on. 6700
  of hard beech forest. 1799
  herbicide transformation by the synergistic interaction of. 1551
  influence of clay minerals on formation of humus material by. 4263
  influence of clay minerals on formation of humic substances by. 5145
  in larch forest in Sugadaira. 7684
  nitrous oxide release by. 6999

**Soil fungi, contd.**
  oxidation of manganous salts of manganese by. 6655
  salt tolerance of. 309
  in salty soils, ecology of. 6383
  from teak forests of Gorakhpur, studies on. 6998
  uptake of carbon monoxide by. 3845
**Soil fungi (Egyptian)**, selective effects of 3 fumigants on. 2396
**Soil fungi (root-infecting)**, influence of on primary development of sugar beets. 4534
**Soil fungicides**, activity of for control of cotton seedling diseases. 3059
**Soil fungicides (volatile)**, survival of endoconidia and chlamydospores of Thielaviopsis basicola as affected by. 7414
**Soil fungistasis**,
  effect on spore germination and germ-tube growth in Penicillium. 3091
  responses of fungal hyphae to. 2761
**Soil inocula**, effect of fungal metabolites on colonisation of fungi on nutrient agar from. 2685
**Soil invertebrates (forest)**, trophic structure and feeding rates of. 3097
**Soil layers (forest)**, growth of fungal mycelium in. 3818
**Soil living Testacea** in Obergurgl. 4630
**Soil microflora**,
  from Argentina. 5146
  effect of herbicides on. 5152
  influence of Benomyl on. 5770
  from USSR east coast rice fields. 1158
**Soil microorganisms**,
  decomposition of minerals containing iron by. 7000
  of north Norway. 5773
  in situ, measurement of $^{14}CO_2$ uptake by. 5763
  toleration to high concentrations and degradation of herbicides by. 4619
  transient activation of by ethanol or acetaldehyde. 3474
**Soil moisture**,
  effect on Cladonia alpestris and C. rangiferina growth patterns. 102
  effect on growth of Macrophomina phaseoli, Sclerotium rolfsii and Fusarium solani in soil. 4261
**Soil nitrogen balance**, effect of inoculation with Tolypthrix tenuis on. 4613
**Soil particles**, aggregate stabilization of by filamentous microorganisms. 3808
**Soil Penicillium**, metabolism of barban by. 5149
**Soil protozoa**, selective action of cultures of. 2402
**Soil samples**, occurrence of Piptocephalis and Syncephalis. 4617
**Soil and seed treatment (chemical)**, influence of on Verticillium-induced yield reduction and tuber defects. 6365
**Soil surface**, prevention of ascocarp formation in Claviceps purpurea by fungicides applied over sclerotia at. 7398
**Soil treatment with benomyl**, prevention of Dutch elm disease with. 2993
**Soil type**,
  in forest plantation, effect of mineral fertilisers on microflora of. 3099
  relationship to severity of Fusarium wilt in sweet potato. 1140
**Soil water suction and temperature**, effects on survival in soil of zoospores of Phytophthora cactorum. 4616
**Solaniol**, of Fusarium solani. 843
**Solanum tuberosum**, attempt to establish dual cultures of Synchytrium endobioticum with. 931
**Solanum tuberosum callus**, attempt to establish dual cultures of Synchytrium endobioticum with. 1568
**Solar irradiation-induced mutation** in Aspergillus. 4877
**Soldiers**, relation between the findings of amoeba in the external environment and their incidence in. 2199
**Solid dispersed in water**, kinetics of growth on. 5536
**Solute concentrations (inorganic)**, influence of blister rust on in western white pine. 4552
**Solute leakage**, from Rhizoctonia solani hyphae, effect of carboxin on. 2105
**Somatic fusion**, in Didymium iridis, genetics of. 2824
**Somerset (Abbot's Pool)**, fine structure and ecology of Woloszynskia tenuissimum from. 1843
**Sooty mold Ascomycetes**, use of hyphal morphology in taxomomy of. 1224
**Sophorose**,
  in Trichoderma viride, 'de novo' synthesis of cellulase induced by. 769
  in Trichoderma viride, inductive formation of cellulase by. 770
**L-Sorbose**,
  effect of on the growth of Coprinus lagopus hyphae. 6098
  effect on polysaccharide synthetases of Neurospora crassa. 4246
**Sore (oriental)**, fine structure of Leishmania tropica in. 3920
**Sorghum**, resistance in to Puccinia purpurea in Hawaii. 3008
**Sorghum (grain)**, effects of weed control in on subsequent incidence of Verticillium wilt in cotton. 7677
**Sorghum diseases** in Niger. 3766
**Sorghum plasma membrane**, effects of host-

**Sorghum plasma membrane, contd.**
  specific toxin of Periconia circinata on some properties of. 6972

**Sorgo juice (from sweet stalks),** behaviour in alcoholic fermentation to obtain yeast and prepare syrups. 2405

**Sorus,** in Georgefischeria riveae, mode of development of. 7116

**Sound (audible and low ultra),** effect of frequency on growth of synchronized cultures of Scenedesmus obtusiusculus. 4240

**Sound (ultra),**
  kinetic characteristics of the changes in yeast cells exposed to the action of. 5471
  morphological changes in Aspergillus niger after treatment with. 6684
  preparation of mycelial suspensions by. 6155

**Sourdough,** factors affecting organic acid production by bacteria of. 7008

**Sowing,** effect of date on adult oat resistance to Erysiphe graminis. 501

**Soybean,**
  action of peptidases from Aspergillus oryzae in digestion of proteins of. 5349
  aetiology of Cephalosporium gregatum in. 5095
  association of pod and stem blight with stem breakage in. 7631
  disease of caused by Neocosmospora vasinfecta. 7633
  effect of temperature on the pathogenicity of Pythium on. 883
  fungal diseases of. 1778
  gene for general resistance to downy mildew of. 4555
  heat-induced susceptibility to nonpathogens and cross-protection against Phytophthora megasperma var. sojae in. 7623
  hydroxyphaseollin as antifungal compound from. 3750
  from India, identity and nomenclature of rust of. 5209
  influence of air temperature on brown stem rot of. 3027
  initial material for breeding resistance to fungal diseases. 6371
  new diseases of. 5714
  nutrient status and mycorrhizal enhancement of water transport in. 6377
  phytoalexins inducer resistance to Phytophthora in. 1097
  population dynamics and biotic controls of looper of in Louisiana. 6872
  resistance in to cyst nematode and Phytophthora rot. 5715
  spot disease of in Valle and Cauca. 4598
  Thielavia basicola and Pestalotia internally seedborne in. 2544
  worst diseases of. 6899

**Soybean (mycorrhizal and nonmycorrhizal),** effect of phosphate fertilisation on yields of. 3082

**Soybean hypocotyls,** induction of 6a-hydroxyphaseollin by Phytophthora megasperma var. sojae in. 832

**Soybean seed,** effect of phytophthora rot on yield and chemical composition of. 2982

**Soybean tissue,** hydroxyphaseollin production by. 7622

**Soybean yields,** reduction of by fungi. 5096

**Space,** maintenance of radiation effect in $\gamma$-irradiated yeasts in. 2089

**Space flight factors,** effect on Chlorella cultures. 2059

**Spain,** distribution of phytoplankton between Corse and Barcelona in in relation to vertical mining. 6533

**Spatial differences** in nutrients and diatoms in Lake Michigan, significance to eutrophication of. 6520

**Specialization (pathogenic),** of Cercospora beticola. 1133

**Specialization (physiologic),** in Aphanomyces euteiches. 6897

**Species densities,** analyses by multivariate general linear model. 2555

**Specificity,** of alkaline protease from Acremonium kiliense. 6002

**Specificity (tissue),** of Nosema in mosquitoes. 482

**Spectinomycin binding (dihydro),** to chloroplast ribosomes from antibiotic-sensitive and resistant Chlamydomonas reinhardtii. 6690

**Spectral regions (different),** metabolism of photosynthesis in Porphyridium cruentum in. 1488

**Spectral sensitivity distribution** of light induced oogonium evacuation in Dictyota. 1507

**Spectrometric comparison (mass),** of ordinary and fully deuterated $\alpha$- and $\beta$-carotene. 7291

**Spectrometry (mass),**
  of hydroxy acids from Nocardia corallina. 290
  qualitative and quantitative analyses of free neutral carbohydrates in mushroom tissue by. 2663

**Spectrophotometry,**
  determination of bromine in seawater and in the ash of marine algae by. 3527
  for determination of monophenolase activity of tyrosinase isozymes. 712
  of thermal denaturation in acidic solutions of double-helical RNA from virus like particles in Penicillium chrysogenum. 1788

**Spectrophotometry (rapid scanning micro),** of colourless Euglena gracilis and Astasia longa. 3873

**Spermatangia,** of Helminthocladiaceae, observations on development of. 612

**Spermatization,** in Gnomonia leptostyla, role of microconidia in. 621

- **Spermatocysts**,
  - of Griffithsia flosculosa, infrastructural study of. 2444
  - of Griffithsia flosculosa, ultrastructure of. 1844
- **Spermatogenesis**, of Coscinodiscus asteromphalus. 1263
- **Spermatozoid**, of Golenkinia, fine structure of. 7048
- **Spermidine content** of Scenedesmus acutus and Chlorella fusca. 2649
- **Spermogonia**, of Mycosphaerella pistaciarum, development and structure of. 5249
- **Spermosphere**, presence of microorganisms which degrade urea and cyanamide in. 2386
- **Sphaeroplast**,
  - action of glucanases produced by Arthrobacter in, formation of from baker's yeast. 6097
  - effect of dithiothreitol on formation of in yeast. 1521
  - of Mucor rouxii, formation of. 7396
- **Sphaeroplast envelopes (pro)**, of Saccharomyces cerevisiae and Hansenula anomala, structure and chemical composition of. 5201
- **Sphagnum-moor** in Shikoku, study on the desmids of. 4718
- **Sphenodon punctatus**, microsporidiosis in. 3744
- **Spherulation**,
  - in Physarum polycephalum, activity of some enzymes during. 1391
  - in Physarum polycephalum, isoenzyme pattern and de novo synthesis of phosphodiesterase during. 4092
  - of Physarum polycephalum, synthesis of glutamate dehydrogenase during. 2587
- **Spherules**, of Emmonsia crescens, enzymatic activity of. 1989, 2627
- **Sphingolipid** base phosphorylation by cell-free preparations from Tetrahymena pyriformis. 7301
- **Sphingosine bases (acetylated)**, in Hansenula ciferri, metabolic basis for the accumulation of. 2045
- **Spices and spice mixtures**, enumeration of microorganisms in. 4638
- **Spiders' webs**, action of psilocybin from Mexican fungi on the building of. 2027
- **Spike disease**,
  - of sandal, chemical control of. 5135
  - of sandal, response of to Benlate treatment. 6336
- **Spin-echo NMR method**, studies of processes of moistening and drying of capsulated and non-capsulated forms of Cryptococcus albidus var diffluens by. 7448
- **Spin labels**, membrane properties of saturated fatty acid mutants of yeast revealed by. 2833
- **Spin lattice relaxation times**, of unfractionated yeast tRNA. 5950
- **Spin states (high- and low-)**, of cytochrome P-450 solubilized from yeast microsomes, interconversion of. 7337
- **Spinach**,
  - effect of lipase on chloroplasts of. 2711
  - enzyme reactions involved in photosynthetic sulphate-reduction in cell-free systems of Chloroplasts of. 4087
  - mildew in. 2986
- **Spinal cord compression**, aspergillosis presenting as. 4443
- **Spindle apparatus** in Saccharomyces fragilis. 3899
- **Spindle microtubule**, behaviour of during nuclear division in the plasmodium of Physarum polycephalum. 4701
- **Spindle plaque (meiotic)**, in Saccharomyces cerevisiae. 6725
- **Spindles and spindle plaques**, in Saccharomyces cerevisiae. 87
- **Spiramycin**,
  - activity of on zoites and cyst development of Toxoplasma gondii in mice. 5708
  - treatment of experimental Toxoplasma gondii infection with. 1091
- **Spleen**, pitting function of in malaria. 7613
- **Spleen cells**, transferance of immunity to Plasmodium berghei with. 426
- **Splenectomy**, effect of on specific and non-specific immunity during malaria in rats infected with Plasmodium berghei. 6802
- **Splenomegaly**,
  - in Brazilian indians, occurrence and results of serological tests from some parasitic diseases. 992
  - in mice infected with Plasmodium berghei yoelii. 7610
  - in rodent malaria, studies of. 1045
- **Splenomegaly (tropical)**, association with sickle-cell trait and Plasmodium falciparum infection. 2263
- **Spodoptepa exigua**, infectivity of the microsporidium parasitic on Utetheisa pulchella to. 1752
- **Spoilage**,
  - of apple, post harvest chemical treatment for. 540
  - of stored tulips by bud necrosis. 542
  - of sweet cherries. 7698
- **Spoilage microorganisms** in brewery. 5166
- **Sponge**,
  - electron microscope study of the association of with a chroococcale. 3994
  - ingestion and digestion of yeast-like fungi by. 1180
  - microbial flora of. 4037
- **Sporal ornamentation**, of the Rhodophyllaceae, development of. 7071
- **Sporangia**,
  - chlamydospore formation in liquid cultures of

- **Sporangia, contd.**
    - Phytophthora parasitica lacking. 2488
  - of Phycomyces, growth responses of. 6499
  - of Phytophthora cinnamomi, effect of soil solution and soil pseudomonads on. 3083
  - of Phytophthora cinnamomi, induction of by substance from bacteria and soil. 3453
  - of Phytophthora palmivora, structure and differentiation of cell wall of. 1270
  - in Pseudoperonospora cubensis, dispersal and viability of. 76
  - of Pseudoperonospora cubensis, effect of humidity during darkness on the transfer of assimilates from cucumber leaves to. 6091
- **Sporangia (airborne),** of Pseudoperonospora humuli, relationship between weather factors and concentrations of. 2489
- **Sporangia (resistant),** of Coelomomyces psorophorae, germination of. 5883
- **Sporangia (thin-walled),** of Coelomomyces indicus, production of planonts by. 6498
- **Sporangial production** of Piloborus, effect of coprophilous Mucor and bacteria on. 7465
- **Sporangiophore,**
  - of Mucor prainii, growth and regeneration of. 3212
  - of Mucor prainii, morphogenesis of. 617
  - of Phycomyces blakesleeanus, electrical mobility of potassium in. 2694
  - Phycomyces blakesleeanus, mechanism of translocation of potassium in. 2695
  - of Phycomyces, regeneration of. 3963
- **Sporangiophore (developing),** of Phycomyces blakesleeanus, uptake of potassium by. 2697
- **Sporangiospore,** of Rhizopus stolonifer, effect of chemical sensitization on repair of potentially lethal irradiation in. 2085
- **Sporangiospore (dormant),** of Phycomyces blakesleeanus, influence of some factors on the metabolism of. 1511
- **Sporangiospore (germinating),** of Gilbertella persicaria, wall fibrils in. 2452
- **Spore analysis (random),** in Saccharomyces cerevisiae. 2114
- **Spore colour** in Puccinia helianthi, inheritance of. 7487
- **Spore concentration (initial),** of Verticillium alboatrum, effect on dimorphism of. 2760
- **Spore count (pollen and fungal),** relation to New Orleans asthma. 410
- **Spore envelopes** in fish coccidia. 3936
- **Spore lipids,** and germination in Agaricus bisporus. 1467
- **Spore patterns (fungus),** in Birmingham Alabama. 7715
- **Spore stage,** of Myxosoma cerebralis, technique for extraction and quantitative study of. 2803
- **Spore wall,**
  - in Coprinaceae. 6454
  - Panaeolus, morphological and ontogenical research on. 4680
  - and its summital differentiations in Naucoriaceae. 5204
  - of wheat rust uredospores, investigations on the chemical composition of. 5304
- **Spore wall (Cyanophilous),** in Agaricales and agaricoid Basidiomycetes. 7067
- **Spores,**
  - in Alternaria citri, in vitro effect of aureofungin on germination of. 1548
  - of Aspergillus flavus, sensitization of to $\gamma$-irradiation by halogens. 7387
  - of Aspergillus and Penicillium, response of to UV light at low temperatures. 3487
  - in Aspergillus nidulans, macromolecular composition and nuclear division during germination of. 95
  - in Aspergillus niger, effect of elevated temperatures on swelling of. 6668
  - Aspergillus niger and Funaria hygrometrica, effect of fast neutrons on. 2744
  - of Aspergillus niger and Trichoderma viride, influence of temperature, media and preservative on swelling of. 7372
  - of Bacillus megaterium, effect of mycotoxins and coumarins on growth of. 4192
  - of Bangia and Porphyra classification of. 3883
  - of Blastocladiella emersonii, evidence for $\gamma$-particle DNA in. 703
  - of Blastocladiella emersonii, sensitivity to antibiotics and other drugs. 906
  - of Botrytis cinerea, effect of plant age on inhibition of by bacteria on beetroot leaves. 6101
  - of Botrytis cinerea, fine structure of germination of. 1284
  - of Botrytis cinerea, quintozene tecnazene and dicloran resistance in. 912
  - of Colletotrichum falcatum, effect of chlorogenic acid on germination of. 914
  - of dermatophytes and Candida, distribution of in the environment. 4739
  - in Endemosarca hypsalyxis discharge of. 5884
  - of Enteromorpha prolifera v. tubulosa, effect of gibberellic acid, ascorbic acid and indole 3-acetic acid on discharge of. 4236
  - of Equisetum, photopolarizability of. 3957
  - of Eremothecium ashbyi, preservation of by direct desiccation. 6664
  - of Fomes annosus, observations on the influence of soil germination of. 1163
  - of Fusarium oxysporum, effect of benomyl on. 5514
  - of Fusarium solani, reduction of 20-carbonyl group of C-21 steroids by. 4814
  - of Gasteromycetes, scanning electron

**Spores, contd.**
microscope study of. 1870
in Gelidella acerosa, studies of. 73
in Georgefischeria riveae, mode of development of. 7116
of Geotrichum candidum, utilization and metabolism of urea during germination of. 3574
of Hysterium tamarindi, periodicity of discharge of. 303
increase of Cercospora leafspot in sugar beets and periodicity of release of. 7652
in Kallymenia, development of. 2482
in Monostoma nitidum, observations of formation of. 7101
of Myomycetes, role in palynology. 13
of Myxosoma, morphology of. 3940
of Myxosoma cerebralis, effects of chemicals on. 3734
of Myxosoma cerebralis, simplified procedure for detection of in large lots of fish. 2140
of Nectria galligena, seasonal release of from apple cankers in Northern Ireland. 3754
of Neurospora crassa, effect of long-term cryogenic storage on. 3456
of Nosema plodiae, production after different infective dosages. 5901
of Penicillium, effect of soil fungistasis on germination of. 3091
of Penicillium digitatum, germination of as affected by solutions of volatile components of citrus fruits. 7125
of Phialophora cinerescens, direct penetration and passive transport of in xylem of carnation. 3784
of Phycomyces, studies on cytochrome content of during germination. 6035
of Phycomyces blakesleeanus, effect of 3-phosphoglycerate and 2-phosphoglycerate on cell free extracts from. 7283
in Podospora arizonensis, fine structure of degeneration of. 3966
of Rhizopus arrhizus, effect of dimethyl suphoxide on germination of. 5500
of Rhizopus stolonifer, changes in soluble RNA polymerase associated with germination of. 5972
of rust fungi, germination of. 4706
of rust fungi, study of on Pinus pinaster. 7637
of rust fungi, surface fine-structure on. 585
of Saccharomyces, relation of formation of to dominance and complementation of mutants of meiosis. 4383
in Streptomyces torulosus, unusual wall ornamentation of. 46
of Trichoderma viride, freeze-etching of. 1575
of Ustilaginales, surface structures of. 1879
of Ustilago scitaminea dispersal of. 3873
of Verticillium spp, protein composition of. 214
of yeast, relevance of scanning electron microscopy to the morphological study of. 1859
**Spores (airborne)**, scotch tape method for trapping and examination of. 2128
**Spores (air fungal)**, seasonal variation in in Gorakhpur. 1336
**Spores (aleurio)**, of Paracoccidioides brasiliensis. 1330
**Spores (asexual)**,
in Aphanomyces euteiches, continuous flow system for induction and observation of formation of. 4909
ultrastructure of Aphanomyces euteiches during formation of. 3961
**Spores (dormant and activated)**, of Phycomyces blakesleeanus, trehalase activity in. 4767
**Spores (freeze-etched)**,
of fungus, demonstration of myelin figures in. 2788
of Thelohania bracteata, fine structure of emphasizing the formation of the polaroplast. 7089
**Spores (fungal)**,
exponential growth of germ tubes of. 99
fatty acid and hydrocarbon constituents of the surface and wall lipids of. 6629
helically-lobed soil bacteria from. 3803
relation to vegetational succession and short-term cycles in pollen diagrams from Wietmarscher Moor. 1807
relationship to asthma in asthmatic children in Carpathian basin. 4403
resistance and susceptibility of to lysis. 5480
secondary respiratory diseases due to inhalation of. 1654
**Spores (germinating)**, in Gilbertella persicaria, cytoplasmic vesicles in. 92
**Spores (microsporidian)**, density gradient for fractionation of. 2804
**Spores (parasitic)**, in the lungs of laboratory mice, appearance of asteroid formations around. 6865
**Spores (resting)**, of Thalassiosira constricta. 2433
**Spores (Saturn)**, Pichia with. 1865, 2460
**Spores (tetra)**, of Gelidiella acerosa, germination of. 1268
**Sporidesmin**, adsorption of by activated carbon and lignin. 6643
**Sporidia**,
of Ustilago hordei, ultrastructure of. 1878
of Ustilago violacea, somatic nuclear division in. 6507
**Sporidiosis (micro)**, in the tuatara. 3744
**Sporocarp production** in Pleurotus sapidus, genetic analysis of. 6768

**Sporocyst,**
- of Isospora hominis of cattle and swine. 4709
- of Sarcosporidia tenella in cat faeces. 3986

**Sporogenesis,**
- in Aggregata eberthi. 1928
- in Coelotropha durchoni, light and electron microscope study of. 638
- endogenous respiration and oocyst segmentation of Eimeria tenella during. 5256
- of Saprolegnia monoica, endoplasmic reticulum during. 2490

**Sporogenous yeast genera**, recognition of. 2775

**Sporogony,**
- of Eimeria stiedai, observations on. 6511
- of Hepatozoon griseisciuri in Haemogamasus reidi. 2299
- of Plasmodium berghei, structural changes following exposure to primaquine. 2310

**Sporonts**, of Eimeria stiedai, effects of ultracentrifugation on the morphology of. 3935

**Sporophyte (tetra)**, of Callithamnion roseum, cell differentiation in. 5874

**Sporopipes squamifrons**, Aspergillus fumigatus infection in. 1056

**Sporotest**, application of to examination of sterility of infusion solutions. 6735

**Sporotrichosis,**
- 6265
- in a cat. 2947
- in children. 5018
- in a dog. 4500
- observations on Sporotrichum schenckii causing. 6871
- regional peculiarities of. 5634

**Sporotrichosis (extracutaneous)**, serological diagnosis of. 2210

**Sporotrichosis (primary pulmonary).** 7552

**Sporozoic protozoa**, taxonomic significance of ultrastructure of. 7088

**Sporozoite induced infections** with a West African Plasmodium ovale, relapse activity in. 2269

**Sporozoites,**
- of Eimeria, quinine inhibition of host cell penetration by in vitro. 1559
- of Eimeria tenella, sensitivity of to fungizone. 7422
- of Eimeria traguli, cytological studies of from the lesser mouse-deer. 6311
- of Haemoproteus columbae, fine structure of. 5859
- induction of immunity in malaria by. 6804
- induction of oral route Plasmodium berghei infections by. 1085
- of Plasmodium berghei, from blood, accelerated clearance of as part of immunomechanisms in mice. 5061
- of Pyxinia crystalligera, in vitro maintenance of. 6163
- transmission of and serial blood passage of Plasmodium vivax in squirrel monkeys. 3743

**Sporozoites (X-irradiated)**, immunization of monkeys against Plasmodium cynomolgi by. 4985

**Sporulating Agaricus bisporus**, mechanism of action of a respiratory inhibitor from the gill tissue of. 5472

**Sporulation,**
- of Alternaria solani, effect of light and temperature on. 4856
- of Aspergillus glaucus in response to somotic pressure illumination and temperature. 1283
- of Aspergillus niger, role of glycolysis in. 96
- of Australian isolate of wheat rust grown in vitro. 2499
- of Botryosphaeria corticis, factors affecting. 4244
- of Botryosphaeria ribis, effect of light intensity on. 1512
- of Botrytis on geranium, effect of temperature and light on. 5094
- of Botrytis convoluta with various carbon and nitrogen sources. 7445
- of Cercospora beticola on sugar beet. 3226
- of Cercosporella herpotrichoides, effect of cyanamide and calcium cyanamide on. 335, 4571
- of Claviceps microcephala, effect of different carbon and nitrogen sources on. 5559
- of Cochliobolus sativus, influence of nitrogen and vitamin source on. 3227
- of Curvularia lunata, effect of certain vitamins on. 1596
- of Epicoccum nigrum in vitro, effect of light on. 6675
- of Fomes annosus. 5891
- of fungi, inhibition of by aflatoxin. 2757
- of Fusarium, comparative studies on the effects of vitamins on. 5565
- of Fusarium oxysporum f. sp. vasinfectum. 1963
- of Guignardia citricarpa, on citrus sinensis, effect of light and temperature on. 4245
- of Melampsora lini inoculated onto flax cotyledons in sterile culture, histology of. 4553
- of Peronospora manshurica, effect of temperatur and lesion size on. 882
- of Physarum polycephalum, evolution of DNA content of nuclei during. 139
- in Pterula, pure culture studies of. 6504
- of Rhizopus arrhizus, effect of dimethyl sulphoxide on. 5500
- in Saccharomyces, genetic control of. 4382
- in Saccharomyces cerevisiae, cell cycle dependency of. 3967

**Sporulation, contd.**
- of Saccharomyces cerevisiae, effect of phase-stage of preculture cells on. 627
- of Saccharomyces cerevisiae, study of respiratory metabolism during. 3969
- of Septoria, effect of paraquat on. 1553
- in Stemphylium solani, action spectrum for UV induction of. 1543
- of yeast, metabolism of acetic acid during. 1276
- of yeast from pathological material, evaluation of media for. 4327
- of yeast, respiration during. 88
- of yeast, stimulation of by glycerol. 4852

**Sporulation capacity**, of yeasts, relations to physiological state. 3970

**Spot,**
- Kudoa from. 6477
- of dormant bermudagrass. 6926
- in soyabeans in Valle and Cauca. 4598

**Spot (citrus greasy)**, histopathology of and identification of causal fungus. 4547

**Spot (gray)**, control of in lawn grass by removal of mower clippings. 2341

**Spot (Helminthosporium leaf)**, effect of sugar content of Poa pratensis on. 6964

**Spot (leaf),**
- of alfalfa, role of phytoalexin medicarpin in. 6984
- on artichokes. 3025
- breeding of sugarbeet for combined resistance to curly top, Rhizoctonia and. 1148
- of Gaultheria shallon, Asterobolus, causing. 5092
- of primrose, control of ramularia infection in with benomyl. 1147

**Spot (Septoria leaf)**, of tomato, effect of intensity and quality of light on peroxidase activity associated with. 1783

**Spot (target)**, of tomato. 5102

**Spray application (ultra-low volume and conventional)**, effect of in covering soil fungicides on cotton stands. 2382

**Spray emulsion**, in the control of grape Botrytis with Benomyl, spraying technique and expenditure of. 6948

**Spray programme** for peach fungus diseases. 5723

**Spray volume**, of fungicide for control of Botrytis leaf blight of onion. 334

**Spruce**, water relation with Cladonia alpestris in Ontario. 531

**Spruce (Norway)**, manganese-poisoning and passive resistance of to Fomes annosus. 1762

**Spruce root bark**, infection and deterioration of by Fomes annosus. 6929

**Sputum,**
- Candida in causing lung disease. 1685
- concentration and cultural method for the enhanced isolation of Histoplasma capsulatum from. 2774
- use of N-acetyl-L-cysteine and dithiothreitol for processing of for mycological and fluorescent antibody examinations. 5533
- sodium hydroxide-process for the isolation of pathogenic fungi from. 325

**Squamous cell changes** associated with the presence of Candida in cervical-vaginal papanicolaou smears. 2232

**Squibb's orabase**, in the treatment of skin diseases. 1697

**Squirrel (grey),**
- Eimeria lancasterensis from. 4052
- Eimeria ontarioensis from. 1962
- role of Haemogamassus reidi in the life cycle of Hepatozoon griseisciuri in. 6512

**Squirrel (Malaysian)**, Eimeridae from. 57

**Stadium Conglomerate**, benthonic foraminifera of. 7191

**Staining,**
- of coccidial oocysts, rapid method of. 5551
- the indiscernible cell wall of marine algae, method for. 6719
- of yeast cells for electron microscopy by growth in copper-containing nutrient broth. 4331

**Staining (cytochemical)**, in amoebae, Golgi apparatus of. 54

**Staining (negative),**
- of Actinomycin D treated Tetrahymena cells and amphibian oocytes. 4353
- of the adoral zone of Entodinium caudatum membranelles. 67
- of Hymenomonas scales. 2431
- of a respiratory-deficient baker's yeast, absence of membrane-bound elementary particles following. 5200

**Staining (rapid)**, for Pneumocystis carinii. 6738

**Staining (supravital)**, of Plasmodium berghei. 3561

**Staining (vital)**, of plant cells with rifampicin and daunoblastin. 7431

**Stakes (southern pine)**, influence of season on organisms infecting untreated. 1186

**Stalk,**
- of Acetabularia mediterranea, rate of photosynthesis at different regions of. 2037
- of Agaricus bisporus, metabolism of $^{14}$C-arginine in. 6619
- in Vorticella and Carchesium, structure and coiling of. 3191

**Stalk sections (short)**, of sugar cane air pressure incorporation of fungicides into for the control of red rot. 6952

**Standardization**, of plant diseases. 348

**Staphylococcal septicaemia (penicillin resistant)**, successful treatment of with vancomycin and fucidin. 7536

**Staphylococci**, association with Candida in chronic tonsillitis. 435

- **Staphylococci (coagulase-positive),** effect of mould on growth of in cheddar cheese. 3838
- **Star cells (medullary),** in Kallymenia, origin of. 2482
- **Starch,**
  - from different plant sources, hydrolysis of by fungal enzymes. 4114
  - from Hericium, molecular structure of. 1458
  - metabolism of by Entodinium simplex. 5567
  - utilization of by Phytophthora. 5557
- **Starvation,**
  - in Colpoda steinii, induction of cyst coat protein synthesis in. 218
  - effects on intramitochondrial granules in Physarum polycephalum. 3448
  - effect on sugar transport in Neurospora candida. 2733
  - effect on survival of fungal sclerotia. 310
  - of Tetrahymena pyriformis, induction of endocytosis in. 6115
  - in yeast, decrease of glycogen and trehalose during under the influence of propanol and ethanol. 6045
- **Starvation (phosphorus),** of Candida utilis, effect of temperature on phosphate uptake and respiration in. 890
- **Starved-refed synchronized Tetrahymena pyriformis,** regulation of DNA synthesis and cell division in. 5318
- **Statice** in south Florida, flower blast of. 3024
- **Stationary growth phase,** .of yeast cells, purification and properties of soluble RNase from. 7226
- **Statistical model,** for population distributions among rotational and vibrational levels of two diatomic spp split from four-atomic complex. 925
- **Statistical techniques,** application of to analysis of fungal populations. 4338
- **Statistics,** relation to Sphacelaria taxonomy. 2443
- **Steak eater (raw),** toxoplasma encephalitis in. 6848
- **Steam (aerated),** eradiciation of seed-borne Septoria lactucae from lettuce with. 5754
- **Steel works effluent,** effect of. 7021
- **Stem,**
  - of blueberry, histopathology and pathogenicity of Botryosphaeria dothidea on. 7628
  - of cultivated carnation, detection of benomyl and Phialophora cinerescens in. 2373
- **Stem anthracnose** of cowpeas in Nigeria. 2354
- **Stem break,**
  - in flax seeds, caused by Polyspora lini. 518
  - in soybean, association of pod and stem blight with. 7631
- **Stem canker,** uptake and effectiveness of benomyl by tea plant against. 2377
- **Stem rot,** see Rot (stem).
- **Stem rust,**
  - in Durum wheat, inheritance of resistance to. 3762
  - race identification and distribution of in Iraq. 3010
- **Stemburn disease,** occurrence of in Tephrosia rogelii in India. 3752
- **Stenosis (extensive),** of the colon following amoebic dysentery. 2258
- **Stereotydeus mollis,** from the Antarctic, food habits of. 537
- **Stereotydeus punctatus,** from the Antarctic, food habits of. 537
- **Sterifil lysis-filtration blood culture system,** evaluation of. 6153
- **Sterility,**
  - cervical inflammation as cause of. 4472
  - of infusion solutions, application of sporotests to examination of. 6735
- **Sterility factor,** cervico-vaginal trichomoniasis as. 7561
- **Sterilization (cold),** technique for wood samples and its uses. 361
- **Sterilization (individual),** of Rhodnuis prolixus by metepa (tris-(1-(2-methiol)aziridinil)-phosphoric oxide) and its action on Trypanosoma cruzi. 7593
- **Sterine production** in yeast, effect of inhibitors of oxidative phosphorylation of. 6667
- **Sterochemistry** of C-1,2 dehydrogenation of 5beta-pregnane-3, 11,20-trione by Septomyxa affinis. 4176
- **Steroid,**
  - effect on dermatophytes. 916
  - mechanism of growth inhibition of Tetrahymena pyriformis by. 1532
  - microbiological 18-hydroxylation of. 823
  - in Saccharomyces cerevisiae, synthesis and metabolism of. 5402
  - from Schizophyllum commune. 239
  - in the treatment of skin diseases. 1697
- C-21 **Steroid,** reduction of 20-carbonyl group of by Fusarium solani spores. 4814
- **Steroid (keto),** in Meristotheca papulosa, occurrence of. 821
- **Steroid (systemic cortico),** Cryptococcal meningitis as complication of systemic lupus erythematosus treated with. 2892
- **Steroid (unnatural),** transformation by Cercospora melonis. 826
- **Steroid breakdown** in Aspergillus flavus. 3375
- **Steroid D-ring lactonization (microbial),** inhibition of by high levels of progesterone. 6059
- **Steroid derivatives,**
  - hydroxylation of with Coniosporium rhizophilum. 7298
  - microbial hydroxylation of. 2022
- **Steroid metabolite,** of fungus no. 501-7Y, structure of. 3377

**Steroid treated guinea pigs**, virulence of Trichophyton mentagrophytes in. 6297

**Sterol**,
- in aerobically adapting Saccharomyces cerevisiae, transmethylation of. 2673
- from Chlorella emersonii, after Triparanol-treatment. 820
- of Cyanidium caldarium. 4809
- dehydrogenation of by Tetrahymena pyriformis. 2819
- in Eremothecium ashbyii, interaction of biosynthesis of flavines. 704
- from Fucus evanescens. 5398
- fungistatic activity of lucerne saponins and digitonins as related to. 7397
- of healthy and rust-infected primary leaves of wheat and non-germinated and germinating uredospores of wheat stem rust. 4557
- in Porphyridium cruentum. 3371
- and the production of oospores by Phytophthora cactorum. 7466
- in relation to ability of Pythium sylvaticum to survive in soil. 5558
- reversal of mycobacillin inhibition reations by. 2752
- of Spirulina platensis. 2667
- of Uromyces phaseoli uredospores. 5405

**Sterol (5,7-diene)**, in Leishmania donovani, occurrence of. 244

**Sterol (24,25-dihydrolano)**, in Ochromonas malhamensis, metabolism of. 4807

**Sterol (ergo)**,
- effect on recovery of Candida albicans from UV light. 3488
- in Tetrahymena membranes, replacement of tetrahymanol by. 245

**Sterol (phyto)**, studies on biosynthesis of. 4807

**Sterol biosynthesis**,
- in cell-free extracts of yeast, structural specificity of bile acids for inhibition of. 6107
- in Euglena gracilis. 2670
- in yeast, effect of cerulenin on. 7411

**Sterol mutants** in Saccharomyces cerevisiae, polyene resistance and the isolation of. 7483

**Sterol side-chain alkylation mechanism** in Trebouxia, observation on. 7292

**Stigmastanol/stigmast-22-en-3β-ol**, of Dictyostelium discoideum, biosynthesis of the lateral ethyl chain of. 2020

**Stigmasterol**, metabolism by Paramecium aurelia. 381

**Stigmatic infection** of fruit trees. 6946

**Stillbirth**, caused by toxoplasmosis. 459

**Stimulation (mechanical)**, of the anterior surface of Paramecium, 2 components of the electrical response to. 7381

**Stimulator**, effect of pretreatment with on subsequent germination and infectivity of Puccinia graminis var tritici uredospores. 4253

**Stimuli** in glucose feed rate and dilution rate, response of continuous culture to. 3551

**Stimuli (periodic)**, in aggregating cells of Dictyostelium discoideum. 551

**Stipe elongation**, promotion of in isolated Flammulina velutipes fruit bodies by carbohydrates, natural extracts and amino acids. 5561

**Stomach** of the mouse, protective effect of various tissues and dilution fluids on toxoplasma parasites in. 6320

**Stomatitis (denture)**,
- experimental model in monkeys. 2941
- incidence of immediate and delayed hypersensitivity to Candida albicans in. 1679

**Stomatitis prothetica** and allergy. 3636

**Stomatopathy (prosthetic)**, Candida albicans as cause of. 438

**Stomoxys**,
- abundance and biting behaviour in relation to trypanosomiasis in Uganda. 413
- feeding behaviour of in relation to non-cyclical transmission of trypanosomes. 6781

**Storability**, of sunflower seeds. 1815

**Storage**,
- and retrieval of stock cultures. 5534
- of Trypanosoma theileri isolated from cattle. 1580

**Storage (cryogenic)**, of Septoria leaf blotch pathogen of barley, technique for. 945

**Storage disease** of tulips, influence of ethylene and mites on. 6960

**Storage fungi**, moisture content of sunflower seeds in relation to invasion by. 5162

**Storage rot fungi**, utilization of amino acids in mixtures by. 1597

**Storage times (various)**, fungi associated with blueberries held at. 4648

**Stratification (summer)**, vertical distribution of some ciliated Protozoa in the plankton of eutrophic pond during. 7198

**Stratigraphy**, of sediments from the central Mediterranean Sea based on benthonic foraminifera. 7194

**Strawberry**,
- control of storage decay of with benomyl preharvest treatment. 2412
- evaluation of fungicides and insecticide for control of red core of. 5070
- field resistance of to Phytophthora fragariae. 5072
- powdery mildew of. 7627
- preharvest fungicide treatments for increasing yield and controlling pre- and post-harvest fruit decay of. 6947
- race and pathogenicity of Phytophthora

- **Strawberry, contd.**
  - fragariae from red core outbreak of. 5071
  - resistance of to gray mould. 5741
  - resistance to Mycosphaerella fragariae in southern Illinois. 502
  - Rhizoctonia fragariae in. 521
  - in Scotland, Coniothyrium fragariae on. 5101
  - Torulopsis fragaria from. 666
  - yeasts of. 3275
- **Strawberry (greenhouse),** control of powdery mildew of with systemic fungicides. 5088
- **Strawberry culture,** control of Botrytis cinerea mycosis in with systemic fungicides in the open. 6945
- **Strawberry fruit rot** caused by Colletotrichum fragariae. 7656
- **Strawberry leaf spot development,** temperature effects on. 6914
- **Strawberry roots,** infected with Pythium, histopathology of. 6325
- **Strawberry rot (Botrytis),** timing of benomyl application in relation to control of. 3026
- **Strawberry runner plant (cold-stored),** control of Typhula snow mould on. 5792
- **Stream,** direct method of measuring benthic primary production in. 3530
- **Stream (fast-flowing),** in Scotland, suspended organic matter in. 1301
- **Stream (laboratory),** effects of grazing by snails on community structure of periphyton in. 5154
- **Stream research (laboratory),** objectives, possibilities and constraints. 4907
- **Streaming (cytoplasmic),**
  - in Chara braunii, observations on. 5806
  - in Nitella, estimation of motive force in. 4659
- **Streblidae,** chiropteran hosts of and hyperparasitic Laboulbeniales. 3692
- **Strelitzia plants** with basal rot. 3040
- **Streptocephalus dichotomus,** food, feeding and digestion in. 1177
- **Streptococcus septicemia** following abortion. 2885
- **Streptomyces,** interactions of with wood decay fungi. 7013
- **Streptomyces calvuligerus,** detection of cephalosporin C acetyl esterase in. 4829
- **Streptomycin,**
  - activity of transamidinase under different conditions of cultivation of organism producing. 778
  - effect on growth and development of nitrogen fixing blue-green algae. 4694
  - effects on Pseudoperonospora humuli. 2322
  - effects of on the ultrastructure of Euglena plastids. 6692
  - influence on orally administered Candida albicans in germ free and conventional mice. 1726
  - natural variation of mutant of organism producing. 983
  - responses of cell populations of chlorococcae to the action of. 904
  - securing SPF-mice by decontamination with. 917
- **Streptomycin-requiring Anacystis nidulans,** isolation of. 4939, 6180
- **Stricture (cicatricial),** in intestinal amoebiasis. 6838
- **Striga lutea,** new fungal pathogens of. 3035
- **Stripe,** resistance of barley to in India. 528
- **Stripe (Helminthosporium),**
  - of barley, fungicides for the control of. 5112
  - resistance to in winter barley. 3053
- **Stromata,** development of and the imperfect state of Eutypella parasitica in maple. 7114
- **Stromatolite (algal),** occurrence of from lower Kaladgi limestones in India. 5271
- **Stromatolite (Australian proterozoic),** prokaryotic algae associated with. 7144
- **Strontium 85,** localization of in soft tissue infected by Aspergillus niger. 1674
- **Strontium 90,** comparison with superficial X-ray therapy for mycosis fungoides. 2246
- **Strontium-substitution** for calcium and algal cell size. 4356
- **Strophanthus** in West Africa, Hemileia buntingii on. 6549
- **Structure,**
  - of Alaria from North America. 3134, 3135
  - of Alternaria. 3905
  - of Amoeba navina. 3927
  - of Anabenopsis tanganyikae. 5177
  - of Ascotricha. 22
  - of Babesiidae from birds. 62
  - of Boletaceae of Israel. 7068
  - of Boletus from North Carolina. 28
  - of Botrytis convallariae, comparison with other spp of the genus. 5742
  - of Brachydesmiella and Ceratosporella from New Zealand. 39
  - of Bryopsis halymeniae. 7098
  - of Ceramiaceae from California. 1211
  - of Ceratocystis stenoceras, adaptation to parasitic existence in comparison with Sporothrix schenckii. 1221
  - of Chaetomidium fragilis, Gymnoascus alatospora, Pseudonectria reticulospora and Thielaviella octosporus. 6442
  - of Cheilymenia pallida from New Zealand. 117
  - of Chlamydomonas in relation to model-organisms. 7047
  - of Chroococcidiopsis. 7096
  - of Chrysochromulina megacylindra. 7097
  - of a chytrid from Bryopsis plumosa. 4716
  - of Clathrus oahuensis from Hawaii. 29
  - of Clavariadelphus. 1871
  - of Conchophthirus curtus. 65
  - of Cryptococcus neoformans in human

**Structure, contd.**
cryptococcosis. 1243
of Chrysochromolina. 1203
of Cyanidium caldarium cultured under pure $CO_2$. 2426
of Cymbella cistula. 7039
of Delesseriopsis elegans. 12
of Dictyurus from Maldive Islands in the Indian Ocean. 4672
of Dinemaspórium from Ontario. 40
of Diplochorella amphimelaeana. 1917
of Eimeria bukidnonensis from cattle. 5225
of Eimeria palustris and Isospora hammondi from the marsh rice rat. 3934
of Eimeria tenella in cell culture. 7132
of Eimeridae from Malaysian squirrels. 57
of Emmonsiella capsulata as perfect state of Histoplasma capsulatum. 7079
of endozoic and endophytic Acrochaetium. 1210
of Euglena sabulorum. 4671
of Fischerella ambigua. 2427
of fungi, antimicrobial properties of cytochalasins and their alteration of. 6132
of fungus exsicati from America. 595
of Fusarium solani f. pisi and F. oxysporum f. pisi, variability in. 4683
of Geastrumia polystigmatis. 98
of Geminella planctonica. 5813
of Gloeodendron and Chrysochaete from Vienna. 6521
of Gomphonema parvulum. 7042
of Harpella melusinae, from black-fly guts. 2453
of Herpobasidium from India. 3277
of Histomonas meleagridis. 1925
of Histomonas meleagridis, in the male reproductive tract of Heterakis gallinarum. 1886
of Hypocrea and Trichoderma. 2457
of Hypoxylon on Fraxinus angustifolia. 6443
of Klosiella mabokensis in African Muridae. 1931
of Lacrymaria olor, observations on during regeneration. 7138
of Lagynophrya fusidens. 1905
of Lobocystis dichotoma var mucosa and Coronastrum anglicum. 3887
of a microsporidan hyperparasite of strigeoid trematodes. 1896
of Monocercomonas as revealed by electron microscopy. 5852
of Mortierella from North Carolina. 18
of Nautococcus mammilatus compared with Nautococcus pyriformis. 7050
of Navicula ostrearia. 4665
of Nummularia from North America. 25
of Ochrosphaera neapolitana. 1862
of Omphalina lilaceorosea. 33
of Opalina from East Georgia. 4692
of operculate discomycete from Cairo. 6446
of operculate Discomycetes from a park near Sarajevo. 21
of Paraphysomonas vestita. 7043
of Parmelia jamesii from Australia and New Zealand. 6471
of Parmelia subgenus Xanthoparmelia in South Africa. 602
of Penella from Simulium larvae. 42
of Pezizales of India. 6451
of Phallus impudicus, abnormal from of. 582
of Phormidium. 2428
of Phylloporus and Paxillus in Malaya and Borneo. 1237
of Phytophthora, comparison with other phytopathogenic fungi. 2454
of Pinocytosis in Acanthamoeba castellanii. 6178
a Plasmodium paranucleophilum from a South American tanager. 1897
of Plasmopara helianthi in semi-artificial medium. 4677
of pre-aggregating slime mould amoebae. 5828
of Puccinia graminis tritici on an artificial medium. 6460
of Pyrenophora erythrospila as the perfect state of Drechslera erythrospila. 7066
of Pyronema domesticum, abnormalities in induced by 2,4-dichlorophenoxyacetic acid. 6092
of Ravenelia taslimii. 6461
in relation to dimorphism of certain parasitic fungi. 5829
of Rhynia gwynnevaughanii. 3916
of Rhizoctonia solani from sugar beet. 3915
of Saccharomycopsis. 6448
of Saprochaete saccharophila in Japan. 7052
of Scenedesmus. 7429
of Scenedesmus in Japan. 1206
of Schimmelmannia dawsonii. 5826
of Scleroderris lagerbergii. 6921
of Tetrahymena pyriformis. 69
of Tetrahymena pyriformis, effect of ethidium bromide on. 3479
of Thelephoraceae of India. 7081
of Trichosporon inkin. 5847
of Trypanosoma. 104
of Trypanosomidae. 3925
of Turaniella vitrea. 1901
of Ulothrix and Stigeoclonium. 4670
of Urohendersonia. 2469
of variant Ectocarpus and Giffordia in cultures. 3881
of Warcupia terrestris. 5838
of Warrenia commosa. 575
of Woloszynskia tenuissimum from Abbot's Pool, Somerset. 1843
of Xylaria apiculata from India. 3273

**Structure, contd.**
  - of Xylophallus xylogenus. 6464

**Structure (fine),**
  - of Allomyces. 1215
  - of Amoebophryidae. 1883
  - of Anacystis montana, effect of rifamycins on. 1545
  - of Ancistrumina nucellae. 3188
  - of the blue-green phycobiont in Gonohymenia lichens. 2472
  - of Bodo saltans and Bodo caudatus and their affinities with Trypanosomatidae. 5850
  - of brown algal nuclei. 5820
  - of the cephalin on Gregarina embiae parasitic in Monotylota ramburi and Haploembia solieri. 7133
  - of Ceratiomyxa fruticulosa. 6435
  - of Chrysamoeba radians. 3856
  - in Clathrulina elegans. 5897
  - of Cocconeis diminuta. 2430
  - of conidial germination in Aspergillus fumigatus. 1923
  - of Cyanidium caldarium. 5231
  - of Dermatocarpon hepaticum. 2471
  - of Devescovina dubia from a termite. 5221
  - of differentiating merozoites of Haemoproteus columbae. 1929
  - of Difflugiella pseudopods. 5223
  - of Eimeria ninakohlyakimovae. 3933
  - of Epicavus araeoceri anterior region. 1894
  - of Euglena gracilis and bleached Euglena and Astasia longa, comparisons of. 3872
  - of fertilization and zygote formation in Ulva mutabilis. 1908
  - of Foraminifera. 3926
  - of the frustule of Navicula ostrearia. 1836
  - of the fungus/alga association in lichens of the Teloschistaceae. 1252
  - of Globigerina bulloides. 3929
  - of Gonyaulax. 5818
  - of Haemoproteus columbae sporozoites. 5859
  - of Harpochytrium hedinii. 17, 3147
  - of the host-fungus interface in orchid mycorrhiza. 1247
  - of Leishmania tropica in the oriental sore. 3920
  - of Leucocytozoon simondi. 6478
  - of Libinia dubia. 5227
  - of some marine choanoflagellates from the coast of Denmark. 7085
  - of the mastigont system in Tritrichomonas muris. 1887
  - of Melosira varians frustule. 3859
  - of membraneous and microfibrillar systems in the cortex of Paramecium caudatum. 1906
  - of the merozoite phase of Eimeria stiedae. 5857
  - of Micrasterias denticulata cell wall and plasma membrane. 3866
  - the microgametes of Aggregata eberthi. 1890
  - of nematode-trapping fungi. 5843
  - of Neurospora crassa slime mutants. 5199
  - of nuclear division in Paramecium aurelia. 1935, 1936
  - of Oocystis apiculata. 3870
  - of Oxyrrhis marina. 3878
  - of a pathogenic Hartmannella castellanii grown in vitro. 3930
  - of Phaeaster pascheri. 3861
  - of Phytomonas elmassiani from the milkweed. 3922
  - of Plasmodium. 5228
  - of Plasmodium gallinaceum. 3941
  - of Pneumocystis in human lung. 5895
  - of pre-erythrocytic development of Plasmodium berghei in the tree rat. 6479
  - in relation to fungal morphogenesis. 1861
  - of Salpingoeca pelagica. 3923
  - of Scenedesmus, effect of calcium deficiency on. 4239
  - of Chrysococcus cordiformis. 3858
  - of the Selenidiidae. 63
  - of Spirulina major crosswalls. 2429, 3124
  - of sporidia of Ustilago hordei. 1878
  - in the Stigonemataceae. 5178
  - of stored pea seed, changes in resulting from infection by Aspergillus ruber and aging. 7015
  - of the surface and infra-ciliature of Gastrostyla steinii. 3944
  - of Swedmarkia arenicola. 1907
  - of Synechococcus lividus. 6428
  - of Trypanosoma congolense, use of carbon replica and freeze-etch technique for study of. 5855
  - of Trypanosoma conorhini cyst-like bodies. 3924
  - of Trypanosoma cruzi kinetoplast, interaction of trypanocidal drug with the kinetoplast DNA causing alteration in. 1557
  - Trypanosoma cruzi in mouse liver. 1888
  - of trypanosomes, effect of trypanocidal drugs on. 1556
  - of Ulva lactuca vegetative and reproductive cells. 6432
  - of the ura 2 locus in Saccharomyces cerevisiae. 1610
  - of Ustilago hordei. 6463

**Structure (unusual)**, in Nitella cell wall. 3867

**Structure/biology**, of Sceletonema costatum. 7044

**Structure/ecology,**
  - of some new ciliates of the periphyton. 5862
  - in Zonaria farlowii. 3205

**Structure specificity** of lysine tRNA from haploid Saccharomyces cerevisiae. 6572

**Structure variations**, of Pyrocystis fusiformis and Pyrocystis elegans. 3877

**Structural transformation** of Dictyococcus

**Structural transformation, contd.**
  cinnabarinus with various carbohydrates. 3567
**Students**, histoplasmin sensitivity in. 984
**Subclavian artery (left)**, mycotic aneurysm of. 1031
**Subclavian vein catheterization** and infection. 5020
**Subclones (C)**, defective micronuclei and genomic exclusion in Tetrahymena. 406
**Subcommittee F**,
  report on analytical mycology of food and drugs by. 4920
  report on microbiological method by. 4921
**Submerged vegetation** of Rotorua and Waikato Lakes. 5910
**Substrate**,
  dissociation of yeast hexokinase under the influence of. 5332
  growth of Phlyctidium scenedesmi on Pediastrum boryanum and Scenedesmus quadricauda in Delta Marsh Canada. 1332
  Phlyctidium scenedesmi destroying an outdoor mass culture of Scenedesmus obliquus. 1331
**Substrate (artificial and natural)**, in Lake Winnipeg, attached algae on. 4726
**Substrate (fermentable)**, use of peat for obtaining. 2816
**Substrate (natural)**, effects on variability in taxonomic characters. 3468
**Substratum (fresh)**, appearance and growth of Sargassum plagiophyllum on. 4722
**Substratum faces (vertical)**, algal communities on in several directions. 3999
**Succession**,
  of algal populations in freshwaters. 7174
  of phytoplankton in Lake Neagh. 7167
**Succession (seasonal)**, of freshwater epipelic algae, patterns of. 7162
**Succession (vegetational)**, relation to fungal spores and short-term cycles in pollen diagrams from Wietmarscher Moor. 1807
**Succinamic acid (N-dimethylamino)**, effect of on Fusarium and Verticillium wilt of tomato. 1138
**Succinate**,
  oxidation of, effect of fungicide from Ustilago maydis on. 332
  in Tetrahymena pyriformis mitochondria, reduction of o type cytochrome by. 219
**Succinate dehydrogenase**, in Colpoda maupasii, activity of. 191
**Succinoxidase activity** of lipid mitochondria, composition of Saccharomyces cerevisiae phospholipids during morphogenesis and effect on restoration of. 6626
**Sucrose**, utilization by fruit-rot fungi. 1598
**Sucrose gradient (equivolumetric)**, for the B-XIV and B-XV zonal rotors. 6722
**Sucrose lactate**, in Cladophorales, characterisation of. 2658
**Sudan**, chemical control of powdery mildew of cucumber and okra in. 6924
**Sudorific syndrome** after ingestion of an altered Tricholoma. 5780
**Suez Canal**, distribution and ecology of Ceratium egyptiacum and its validity as indicator of the current regime in. 7154
**Sugar**,
  changes in in mango fruits infected by Diplodia natalensis. 6955
  epidemiology of Cercospora beticola on. 4568
**Sugar-amino acid reaction**, antimicrobial nature of the products of. 7419
**Sugar content** of Poa pratensis, effect of on Helminthosporium leaf spot. 6964
**Sugar consumption**, during Saccharomyces cerevisiae fermentation, study of. 4800
**Sugar factories**, of NW Argentina, effect of adding nitrogen and vitamins on alcoholic fermentation of molasses from. 2404
**Sugar transport**,
  in Neurospora conidia, effect of pH and starvation on. 2733
  in Neurospora crassa. 3359
**Sugar uptake**,
  in cultured cells, inhibition of by cytochalasin A and B. 5419
  relationship of inhibition to 2-deoxy-D-glucose of synthesis of glycoprotein enzymes by protoplasts of Saccharomyces to. 7234
**Sugarbeet**,
  attacked by downy mildew. 3747
  breeding of for combined resistance to leaf spot, curly top and Rhizoctonia. 1148
  contributions to the epidemiology of Cercospora beticola on. 4257
  control of Cercospora leafspot of under sprinkler irrigation. 1132
  correlation of cultural characters and source of isolates with pathogenicity of Rhizoctonia from. 3915
  effects of Aphanomyces cochlioides and Pythium ultimum alone and as complexes with Heterodera schachtii on. 1160
  increase of Cercospora leaf spot in, and periodicity of spore release. 7652
  incubation and sporulation of Cercospora beticola on. 3226
  influence of root-infecting soil fungi on primary development of. 4534
  in Iran, Phytophthora and Pythium root rot of. 1100
  seedling disease in. 1753
  study of pathogenic specialization of Cercospora beticola in. 1133
  techniques for evaluating resistance to Cercospora beticola in the field in. 3774

**Sugarbeet, contd.**
  in Texas-New Mexico high plains, Cercospora leaf spot epidemics on. 3028
  variation among isolates of Cercospora beticola from. 4393
**Sugarbeet (young)**, prevention and control of fungal root diseases of. 4610
**Sugarbeet callus tissue**, growth of Peronospora farinosa f. sp. betae with in dual culture. 3532
**Sugarbeet seed**,
  method for the detection of Pleospora bjoerlingii infection of. 350
  organo-mercury fungicide treatment of. 3755
**Sugarbeet seedling disease**, incidence of and effects of seed treatment in England. 5119
**Sugarcane**,
  aeriobiology of Cercospora koepkei causing yellow-spot disease of. 4570
  air pressure incorporation of fungicides into short stalk sections of for the control of red rot. 6952
  improved method of screening of against red-rot disease. 7444
  individual and combined effects of Pythium tardicrescens and Pythium graminicola on. 2323
  influence of sugarcane mosaic virus str H and Pythium graminicola on growth of. 1101
  study of polyphenols in in relation to red rot disease of. 5721
**Sugarcane leaves**,
  infected by Helminthosporium sacchari, runner lesion formation in relation to helminthosporoside in. 6065
  ultrastructure of cells of after toxin-treatment and Helminthosporium sacchari infection. 5116
**Sugarcane seedling diseases** in Hawaii. 4576
**Sugarcane smut**, spore dispersal of. 3973
**Sulfhydryl compounds**, occurrence of during autolysis of Saccharomyces cerevisiae. 4841
**Sulfhydryl groups**, inactivation of patulin mycotoxins with. 1483
**Sulfonamide**, inhibition of dihydropterate synthesis in Plasmodium chabaudi. 784
**Sulfurylase (ATP)**, from Penicillium chrysogenum, physical kinetic and regulatory properties of. 762
**Sulochrin**, conversion of anthraquinone questin into in Aspergillus terreus cultures. 3424
**Sulphadimethoxine**,
  antagonistic effects of to phalloidin and $\alpha$-amanitin. 2939
  response of drug-resistant Plasmodium falciparum to. 7568
**Sulphadimethoxine (potentiated)**, studies on as chicken coccidiostat. 3727
**Sulphadoxine** as treatment for acute Plasmodium falciparum malaria. 6844
**Sulphalene**, treatment of falciparum malaria with. 2264
**Sulphamethoxazole-trimethoprim association** in bronchopulmonary infections. 3634
**Sulphamethoxine**,
  malaria resistant to. 1715
  response of drug-resistant Plasmodium falciparum to. 7568
  treatment of phycomycosis by in Chad. 2876
**Sulphamethoxydiazine**, activity of on zoites and cyst development of Toxoplasma gondii in mice. 5708
**Sulphametopyrazine + pyrimethamine**, single dose treatment of Plasmodium falciparum malaria in Cameroon with. 2266
**Sulphametopyrazine + trimethoprim**, single dose treatment of Plasmodium falciparum malaria in Cameroon with. 2260
**Sulphamidine**, chemotherapy in coccidian infection in lambs. 478
**Sulphamonomethoxine**, peripheral leucocyte counts during long term administration of. 4487
**2-Sulphamoyl-4,4'-diaminodiphenyl sulphone**, treatment of experimental Toxoplasma gondii infection with. 1091
**Sulphanilamide**, treatment of experimental cutaneous leishmaniasis with. 470
**Sulphatase (aryl)**, in human dentine, ability of microorganisms to produce histochemically determinable activity of. 1416
**Sulphate**,
  incorporation of into the capsular polysaccharide of Porphyridium. 7281
  of laver, relationship between chemical constituents in environmental factors. 791
**Sulphate groups** κ-carrageenan from Gigartina tenella, location of. 7280
**Sulphate reduction (assimilatory)**, in Leishmania tarentolae. 2054
**Sulphate reduction (photosynthetic)**,
  in cell-free systems of spinach chloroplasts and Chlorella, enzyme reactions involved in. 4087
  mechanism of in Chlorella. 6070
**Sulphatolamide**, activity of on zoites and cyst development of Toxoplasma gondii in mice. 5708
**Sulphite**, effect on lichens with reference to atmospheric pollution. 1823
**Sulphomerazine**, activity of on zoites and cyst development of Toxoplasma gondii in mice. 5708
**Sulphomethoxine**, peripheral leucocyte counts during long term administration of. 4487
**Sulphonamide**,
  inhibition of candidacidal activity of human

**Sulphonamide, contd.**
  neutrophils by. 2101
  selection of for the treatment of rodent malaria. 6895
  in the treatment of pulmonary mycoses. 2241
**Sulphonamide (N-methyl-N-nitroso-p-toluene),** a Euglena mutant resistant to. 316
**Sulphonamide resistance** induced in malaria parasites by milk diet given to host animals. 7608
**Sulphones (ring-substituted bis (4-aminophenyl),** as antimalarial agents. 2967
**Sulphones DFD and DS,** use of in prophylaxis of malaria. 2928
**Sulphur,**
  field evaluation of for control of Sphaerotheca fuliginea on cucumber. 5086
  spray programme for peach fungus diseases with. 5723
35 **Sulphur,** influence of powdery mildew infections in leaves of apple seedlings on. 1112
**Sulphur (elemental),** oxidation to thiosulphate by Streptomyces. 291
**Sulphur compound,** effect of yeast strain and type of on hydrogen sulphide production. 5434
**Sulphur compounds (organic),** inhibitory effect of on Histoplasma capsulatum. 4260
**Sulphur-containing amino acids,** effect on sclerotium formation in Sclerotium. 1285
**Sulphur iron centres,** in the respiratory chain in Candida utilis submitochondrial particles oxidation-reduction potentials in. 3428
**Sulphur metabolism,**
  in Neurospora crassa, control of synthesis in turnover of enzymes of. 5976
  in Neurospora crassa, mutation causing derepression of several enzymes of. 2829
**Sulphur nutrition** of Puccinia graminis f. sp. tritici in axenic culture. 6748
**Sulphur selenium antagonism,** studies of in blue-green algae. 2806
**Sulphurylase (adenosine-5'-pyrophosphate),** in baker's yeast. 5993
**Sulphydryl,** in Aspergillus oryzae alpha amylase papain and lysozyme, study of the number of. 1442
**Sulphydryl groups,**
  investigation of inactivation of patulin myotoxins with. 1483
  in yeast alcohol dehydrogenase, acetylation of. 2637
  in yeast alcohol dehydrogenase, behaviour of acetyl groups combined with. 2638
  of yeast aldolase, differential reactivity of towards p-hydroxymercuribenzoate. 6017
**Summer maxima** of algae and eutrophication. 7180
**Sunflower,**
  application of thin-layer chromatography to a study of variation in Puccinia helianthi causing rust of. 7339
  diseases of in Australia. 5734
  field evaluation of for downy mildew resistance. 6900
  Fusarium wilt of. 3780
  studies on parasitic sclerotium of. 3826
  genes giving resistance to downy mildew of. 1756
  ultrastructural changes in rust-infected tissues of. 7635
**Sunflower hypocotyls** infected with Sclerotinia sclerotiorum, changes in cell membrane permeability in. 4549
**Sunflower seeds,**
  evaluating condition and storability of. 1815
  moisture content of in relation to invasion by storage fungi. 5162
**Suppression** of mutation disruptive to nuclear migration in Schizophyllum by gene linked to the B incompatibility factor. 3590
**Suppression system (super),** of yeast, extrachromosomal elements in. 5583
**Suppressor (dominant super),** in Saccharomyces cerevisiae. 3583
**Suppressor (missense),** in Neurospora crassa, induction, genetic localization and relationship to. 6191
**Suppressor factor,** effects of on nuclearly and cytoplasmically inherited chloramphenicol resistance in Saccharomyces cerevisiae. 5572
**'Supronal',** activity of on zoites and cyst development of Toxoplasma gondii in mice. 5708
**Suramin,**
  effect of on blood and tissue forms of Trypanosoma. 2953
  treatment of trypanosomiasis with. 2910
**Suramin-tryparsamid complex,** chemotherapeutic susceptibility of Trypanosoma evansi to. 4306
**Surface,** of Pilobolus, fine structure of. 7064
**Surface coat formation,** in Trypanosoma brucei, some aspects of. 3180
**Surface structure,**
  in Allomyces during germination and growth. 4676
  of cholineless Torulopsis pintolopesii grown on defined media with choline or methionine. 4859
  and unidentified organelles of Lycoperdon perlatum basidiospores. 6458
**Surface tension,** of the medium, discontinuities in and growth of cells. 5435
**Surfactants,** production of by marine phytoplankton cultures. 2691
**Surgery,**
  broad-spectrum antibiotic therapy and

**Surgery, contd.**
    candidiasis prevention in. 1684
  of broncho-pulmonary apsergilloma in 26 cases. 5611
  in chronic granulomatous disease of childhood. 2230
  in intracavitary mycetomas. 1017
  of invasive amebiasis. 2926
**Surgery (cardiac),** Curvularia endocarditis following. 2234
**Surgery (definitive),** pretreatment of chronic suppurative bone disease before. 4459
**Surgery (open heart)** transfusion-induced malaria after. 4488
**Surgical patients**, disseminated candidiasis in. 6258
**Suriname**, taxonomy, ecology and distribution of Rhynchospora in. 1214
**Surra,**
  chemoprophylaxis against. 5677
  effect on Trypanosoma evansi in rats. 2094
  studies on. 3712, 5602
  studies on the chemoprophylaxis against. 6305
**Survey (community),** histoplasmin skin test sensitivity in cases of presumed ocular histoplasmosis identified during. 5626
**Survival,**
  of confused flour beetles exposed to fungus metabolites. 3704
  of conidia of Cercospora canescens. 6950
  of Entamoeba histolytica cysts, bioassay system for evaluation of. 5484
  of Fusarium mutants, effect of chemical mutagens on. 3491
**Survival (winter),** of Helminthosporium maydis in midwestern U.S. 529
**Survival characteristics** of hybrids of three geographical races of European corn borer. 5060
**Survival curve,** of yeast cells, after irradiation. 4875
**Survival level (50%),** RNA synthesis in irradiated diploid yeast at. 4756
**Susceptibility (differing),** to Erysiphe graminis, course of infection in wheat with. 6331
**Suspension method,** mechanical properties of Chlorella cell walls as determined by. 7352
**Swabs (polyester sponge),** examination for genital infection in women with. 431
**Swallow (cliff),** Isospora petrochelidon from. 6313
**Swamp (intermediate),** from Belgorodskaja territory, algae of. 7175
**Swarmers**, of Cladophora and Chaetomorpha, fine structure of. 1838, 5182
**Sweden,**
  capacity of coastal waters to use nutrients in. 3257
  Fragosphaeria purpurea in. 4022
  problem of giardiasis in. 2847
  records of Myxomycetes from. 3142
  Tricholoma in. 661
**Sweden (Lake Erken),** nitrogen fixation in. 3992
**Sweden (Lake Mjörn),** littoral vegetation in. 5294
**Sweden (Øresund),** sun-shade adaptation in microbenthic algae from. 1313
**Switzerland,**
  contribution of agriculture to the eutrophication of the waters of. 7179
  dermatomycoses caused by Trichophyton verrucosum in. 2238
  the Physcia of. 672
  Physcia vainoi from. 674
  survey of algal flora of watershed in. 653
**Switzerland (Zurich),** folk botany of. 6472
**Sycamore,**
  Aureobasidium pullulans as endophyte in. 1328
  control of the twig blight stage of anthracnose of. 6910
  at Otley, Yorkshire, death of. 6992
**Symbiont (fungal),** in the prothoracic mycangium of Dendroctonus fraontalis. 7189
**Symbiont (gut),** of termites, studies on nutritional physiology after selective elimination of with drugs. 6704
**Symbiont (hereditary),** extra chromosomal inheritance in. 4394
**Symbiosis,**
  in Gunnera, binding of atmospheric nitrogen in. 788
  relationship between Entamoeba histolytica and Bacteroides symbiosus. 554
  in sacoglossan opisthobranchs. 7688
  Urceolaria viridis and an elongate green algae from the marine limpet. 70
**Symbiosis (algal invertebrate),** biology and physiology of. 5916, 5917
**Symbiotic algae**, role of in coral calcification. 1317
**Symbolism (mushroom),** in Maya Codices. 7722
**Symptom development**, of Guignardia citricarpa on citrus sinensis, effect of light and temperature on. 4245
**Symptomless young adults**, occurrence of Giardia lamblia in. 1637
**Synaptic structure** in the nuclei of Saccharomyces cerevisiae. 5837
**Synaptonemal complexes,**
  in Echinostelium minutum. 1848
  of Neurospora crassa, reconstruction of pachytene karyotype from serial sections of. 3174
  in red algae. 7057
**Synchronization,**
  of aerobic yeasts, metabolic rhythmic changes after. 867
  of Coscinodiscus asteromphalus developmental stages. 1261
  of Dunaliella cultures. 859

- **Synchronization, contd.**
  - of fungal cells. 7080
  - in the gametocytes of Plasmodium falciparum. 1932
  - of growth and division of rat-adapted Plasmodium vinckei chabaudi by photoperiodic rhythm. 1933
  - of Tetrahymena by deuterium oxide, cytokinesis after. 6127
  - in Tetrahymena, by heat shocks. 894
- **Synchronization (de),** lack of in the circadian rhythms of Gonyaulax polyedra. 3446
- **Synchronization (leucine-lysine),** of Allomyces germlings. 794
- **Synchronized Tetrahymena,** colcemid action on the division schedule of. 6126
- **Synchronized Tetrahymena (heat),** effects of temperature and heavy water on cell division in. 6116
- **Synchronous development,**
  - of Aspergillus niger conidiophores, changes in carbon catabolic pathways during. 6508
  - in Neurospora crassa, temperature-dependent actinomycin D effect on RNA synthesis during. 2096
- **Synchrony,**
  - of Euglena gracilis, influence of culture pH and phosphate on. 1506
  - in Scenedesmus quadricauda, nuclear division as criterion of. 5234
  - in Schizosaccharomyces pombe, induction of. 351
  - of Tetrahymena, effect of chlorpromazine on macromolecular syntheses in. 1560
  - of Tetrahymena pyriformis mass cultures, heterogeneity of RNA in cellular fractions from. 1381
  - in Tetrahymena pyriformis, mechanism of induction of. 1378, 1533
- **Synchrony (photoinduced division),** in permanently bleached Euglena gracilis. 1266
- **Synchrony induction,** in Tetrahymena pyriformis, mechanism of. 2006, 2007
- **Synergism,**
  - of amphotericin B and 5-fluorocytosine against yeast-like organisms. 2102
  - of soil fungi, effect on transformation of herbicide. 1551
- **Syngamy** of Hepatozoon griseisciuri in Haemogamasus reidi. 2299
- **Synovial cavity,** penetration of fucidin in. 7548
- **Synovial fluid** from patients with rheumatism, phagocytic test in. 5530
- **Synthase (citrate),** from Penicillium spiculisporum, purification and properties of. 7251
- **Synthase (2-decylcitrate),** from Penicillium spiculisporum, properties of. 178
- **Synthase (α-isopropylmalate),** from yeast, purification, kinetic studies and effect of ligands on stability of. 5997
- **Synthetase,** of Neurospora crassa. 6569
- **Synthetase (aminoacyl tRNA),** structure and activity of. 4778
- **Synthetase (Δ-aminolaevulinic acid),** in anaerobically grown Torulopsis utilis, detection of. 4781
- **Synthetase (δ-aminolevulinic acid),** in bakers yeast, comparison of wild type str and petite mutant. 1398
- **Synthetase (carbamoylphosphate),** of the arginine biosynthetic pathway of Saccharomyces cerevisiae, regulation of. 5995
- **Synthetase (chitin),**
  - effect of inhibition of Mucor rouxii by polyoxin D on. 6129
  - in Mucor rouxii, cellular localization of. 157
  - from Mucor rouxii, properties of. 159
- **Synthetase (cytoplasmic and mitochondrial leucyl-tRNA),** of Neurospora, effect of mutation and 'reversion' at the leu-5 locus. 2159
- **Synthetase (3-deoxy-D-arabino-heptulosonate-7-phosphate),** from Saccharomyces cerevisiae, separation and properties of isozymes of. 167
- **Synthetase (desoxythymidylate),** in Plasmodium chabaudi, synthesis of during synchronous schizogony. 785
- **Synthetase (fatty acid),**
  - from Chlamydomonas reinhardi, site of transcription and translation. 5960
  - fatty-acid elongation in Saccharomyces mutant deficient in. 2021
  - of Saccharomyces cerevisiae, gene linkage and gene-enzyme relations in. 2832
  - of yeast, genetic organization of. 5584
  - of yeast, temperature-sensitive mutant of. 3581
- **Synthetase (glutamine),**
  - of Candida tropicalis, regulation of. 1418
  - in yeast, inactivation in vivo of. 3338
- **Synthetase (glycogen),**
  - and control of glycogen synthesis in Dictyostelium discoideum during cell differentiation. 3313
  - and control of glycogen synthesis in Dictyostelium discoideum during growth phase. 3312
- **Synthetase (kaurene),** from Fusarium moniliforme, purification and properties of. 2628
- **Synthetase (malate),** in Polytomella caeca, localization of. 3308
- **Synthetase (phenylalanyl tRNA),**
  - from bakers' yeast cation dependence of the transfer reaction catalyzed by. 738
  - from baker's yeast, effect of assay conditions on the magnesium requirement of the transfer reaction catalyzed by. 5994

**Synthetase (phenylalanyl tRNA), contd.**
  of yeast, new heterologous mischarging reactions with. 1423
**Synthetase (polysaccharide),** of Neurospora crassa, effect of L-sorbose on. 4246
**Synthetase (riboflavin),**
  from Eremothecium ashbyii, second-order kinetic reaction catalyzed by. 162
  in Saccharomyces cerevisiae, structural gene for. 6196
**Synthetase ($tRNA^{Leu}$),** from baker's yeast, crystallization of. 5989
**Synthetase (trehalose 6-phosphate)** in Dictyostelium discoideum, in vitro unmasking of. 5324
**Synthetase (tryptophan),**
  of Candida utilis, effect of cysteine on activity of. 760
  in Euglena gracilis. 5965
  inhibition of by indoleacrylic acid. 5326
**Synthetase (tyrosyl-tRNA),** from baker's yeast. 4100
**Syringe (disposable plastic),** radiation sterilization of. 4873
**Syrphidae,** attacking Agaricales in Hungary, systematic and ecological studies on. 6546
**Syrups,** sweet stalks of sorgo and corn juice behaviour in alcoholic fermentation for the preparation of. 2405
**Syrups (pharmaceutical),** microbial contamination of. 6415

# T

**Tabanidae,**
  abundance and biting behaviour in relation to trypanosomiasis in Uganda. 413
  study of pathogenic mycoflora of in the Ukraine. 3698
**Take-all,**
  caused by Ophiobolus graminis, survey of estimation of losses, caused by. 3074
  of wheat, viral particles from the agent of. 5140
**Tahiti**, first case of fungal mycetoma in. 449
**Tanager (South American)**, Plasmodium paranucleophilum from. 1897
**Tannin-conditions**, for the precipitation of pectolytic enzymes by in deep culturing of Sclerotinia sclerotiorum on péctin-containing media. 5339
**Tanzania,**
  Fusarium wilt of Voandzeia subterranea in. 4583
  new citrus disease complex in. 6963
  sleeping sickness survey in. 1645, 1646, 1647, 1738
**Tapé fermentation**. 5776
**Tapetoretinal degeneration (pseudo)**, with acquired toxoplasmosis. 6853
**Tapeworm (dioecious)**, studies on. 6321
**Tapioca starch**, hydrolysis of by fungal enzymes. 4114
**TAPO (fixatives containing)**, visualization of new ultrastructural components in the cell wall of Candida albicans with. 3169
**Taranto Gulf**, foraminifera of bottom samples collected in. 1345
**Tasmania,**
  coast wave danger in. 6532
  taxonomy of planktic Staurastra from. 7054
**Tasmanian wildlife**, serological study of some infectious diseases of. 6240
**Taxonomic characters**, effect of natural substrates on variability in. 3468
**Taxonomy,**
  of Acanthamoeba comandoni and Acanthamoeba astronyxis. 53
  of Actinomyces and Hyphomycetes. 45
  of Actinomyces tumemacerans strinmi P-42. 596
  additions to the publication 'Mucorales' by Zycha, Siepmann and Linnemann. 1852
  of Akaropeltis. 5831
  of Alaria. 3879
  of algae of the culture collection at Indiana University. 3140
  of Ambrosiozyma. 5195
  of Amphidinium. 3874
  of Analipus and Heterochordaria. 572
  application of isozyme patterns produced with disc electrophoresis of Physarales. 7061
  of Archigregarinorida and Selenidiidae. 1900
  of Ascotricha. 22
  of Aspergillus sojae and A. oryzae, differentiation by polyacrylamide gel disc electrophoresis. 5212
  of Astyiozoon faurei. 3189
  of Babesiidae from birds. 62
  of Barnettella and Vinculum. 1880
  of Basidiomycetes from New Zealand. 31
  of Blastocrithidia triatomae from Triatoma infestans. 50
  of Blepharocorythidae. 3190
  of blue-green algae. 1835
  of blue-green algae type specimens. 3123
  of blue-green algae, utilisation of cultures in. 2766
  of Boletus from North Carolina. 28
  of Brachydesmiella and Ceratosporella from New Zealand. 39
  of Bremia lactucae. 16
  of Calcareous nannoplankton. 3139
  of Candida, significance of DNA base compositions in. 1242
  of the Carbomycetaceae and Terfeziaceae. 23
  of Ceuthospora, Pyrenophora and Blennoria. 4682
  of Chaetomorpha. 3127
  of Chara, significance of monoecism and dioecism in. 562
  of Cheilymenia pallida from New Zealand. 117
  of Chlorella, physiological and biochemical contributions to. 564
  of the Chlorophyta. 3864
  of Chlorosarcinaceae from Argentina. 3865
  of Chytridium, Diplochytridium and Canteria. 3889
  of the Clastodermataceae (fam.n.) of the Echinosteliales. 14
  of Clathrus oahuensis from Hawaii. 29
  of Clavicorona. 7069
  of Conchophthirus curtus. 65
  of Cylindrosporium. 3171
  of Delacroixia coronata. 6438
  of Delesseriaceae from Hokkaido. 11
  of Dermatophytes. 2468
  of Diaporthe citri and Phomopsis citri, correction of. 5834
  of Dinemasporium from Ontario. 40
  of Diplodia, effect of pH, temperature, light and vitamins on. 3466
  and DNA composition on Trichosporon yeasts. 44
  of Eimeria kinsellai in a marsh rice rat. 59
  of Eimeria lipura and E.landersi of the long-tailed porcupine Trichys lipura. 57
  of Eimeriidae from Malaysian squirrels. 57
  of Endemosarca. 60
  of Ephemeroptera. 5230
  of Epithele. 1873
  of the Eustigmatophyceae. 5

**Taxonomy, contd.**
  of flagellates and algae published in 1966-68. 2447
  of the Fungi. 3917
  of fungi, measurement of DNA nucleotide sequence homology in relation to. 4067
  of Geastrumia polystigmatis. 98
  of genera and type spp of flagellates and algae published in 1969. 4690
  of Glaucomidae and Epenardia. 68
  of Gomphus canadensis. 580
  of Gomphus and Gloeocantharellus in North America. 7072
  of Gumnosporangium in relation to the aecidia. 5839
  of Haemoproteus. 61
  of Helvella fastigiata. 2456
  of Heptameria. 1222
  of Humicola. 5216
  of Humicola, DNA base composition in relation to. 6575
  of Hydnum L. ex Fr. 1874
  of Hymenochaetaceae. 3164
  of Hyphomycete. 6467
  of Hyphomycetes, nature and significance of Conidial chains in. 3912
  of Hypotrichida. 3945
  of identical genera of budding and stalked bacteria. 5846
  isozyme patterns of Fusarium and their significance in. 7248
  of Kluyveromyces. 5835
  of the koji mold. 1239
  of Labyrinthula and Amoebae, relationship between. 55
  of Lactarius pyrogalus. 6457
  of Laminaria. 5911
  of Lephotrichus. 1225
  of Macrochloris. 6430
  of Malacozoomonas. 5851
  of Mortierella from North Carolina. 18
  of Myriogramme yezoensis. 7058
  of Myxomycetes from Sweden. 3142
  of Merulius. 32, 3162
  of Nematodomonas. 5853
  of Nummularia from North America. 25
  of Omphalina lilaceorosea. 33
  of the Opalinidae. 2475
  of operculate Discomycetes from a park near Sarajevo. 21
  of the Ophryoscolescidae. 1904
  of Papulaspora and bulbilliferous basidiomycetes. 3163
  of Paracoccidioides brasiliensis. 1009
  of Parmelia permaculata from Alabama and Mexico. 49
  of Penella from Simulium larvae. 42
  of the perfect forms of dermatophytes in the Gymnoascaceae. 3895
  of Pestalozziella. 4686
  of phytopathogenic fungi. 2470
  of Phytophthora from Arizona. 2455
  of Pilophorus. 4689
  of planktic Staurastra from Tasmania. 7054
  of Pleurastrum, study by chromatography. 569
  of Poculum, Calycina, and Lanzia. 6441
  of Porphyra miniata. 5825
  of Pseudorobillarda and Robillarda. 5219
  of Pseudotsuga menziesii and Rhizopogon vinicolor. 90
  of Puccinia striiformis infecting wheat. 5210
  of Pyrrhophyta. 3133
  of Rhodocybeborealis and R.asterospora of the alps. 584
  of Rhytisma. 85
  of Saccharomyces, significance of DNA base compositions in. 1227
  of Sameioneis carinaes. 1298
  of Sarcosphaera crassa. 1863
  of Scenedesmus in relation to cell wall ultrastructure. 5180
  of Scenedesmus, cell wall ultrastructure as character of. 7053
  of Schizoblastosporion starkeyi-henricii. 3270
  of Schizothyrioma ptarmicae and S.aterrimum. 578
  of Sciniatosporium. 2467
  of Sclerotinia sclerotiorum and S.tuberosa. 6449
  of Selenidiidae. 63
  of sooty mold Ascomycetes, use of hyphal morphology in. 1224
  Sparrowia. 1217
  of Sphaeria phaeostroma. 2462
  of Sporomiella and Sporomia. 4678
  of sporozoic protozoa, significance of ultrastructure in. 7088
  of Stereum in North America. 36
  of Strebionema. 5187
  of Streptomyces lividus. 597
  of Streptomyces rochei var. volubilis. 598
  of Streptomyces torulosus with knobby-spores. 46
  of Stromatinia. 1867
  Talaromyces and related genera. 1868
  of Terfeziaceae. 23
  of Tetrahymena pyriformis. 69
  of thecamoebae from water bodies in middle Parana River islands. 1255
  of Thermoactinomyces sacchari. 47
  of Thermophilous fungi of coal spoil tips. 1240
  of Tolyposporium eriocauli. 6462
  of tropical marine algae. 5463
  of Urceolaria viridis. 70
  of Uredinales in relation to pycnium type. 1875
  validation of the generic name Gloeocercospora and the specific names G.sorghi and G.incon spicua. 1245
  of yeasts. 586
  of yeast, by monospore culture analysis. 2776
  of yeast, relation to serology. 5594

**Taxonomy (numerical)**, and comparative electrophoresis of Candida. 7075
**Taxonomy/ecology**, of euglenophytes and pyrrophytes of the Theiss. 3131
**Taxonomy/ecology/distribution**, of Rhynchospora in Suriname. 1214
**Taxonomy/immunology**, of Trypanosoma. 2863
**Taxonomy/structure**,
  of Acanthamoeba griffini. 1889
  of Acanthosporinae gregarines. 1891
  of Achaetomium uniapiculatum. 3150
  of Aecidium on Agathis. 1229
  of agarics from South America. 1236
  of Alaria. 3880
  of Aleuria and Melastiza from Bohemia. 3893
  of algae. 4662
  of algae confused under the name Gomontia polyrhiza. 4668
  of algae from the Roscoff region. 3888
  of Alpakesa and Bartalinia. 5211
  of alpine myxomycetes from Washington. 6436
  of Annellophorella Zizyphi. 3168
  of Aplanochytrium kerguelensis from subantarctic marine waters. 2450
  of Arachniotus and related genera of the Gymnoascaceae. 1855
  of Arrhytidia. 6465
  of Ascophanus. 1856, 3894
  of Ascotricha described by L.M. Ames. 1219
  of Asterionella. 1202
  of Asterobolus. 5092
  of Bangiophyceae. 3884
  of Bicoeca crystallina. 3855
  of Bifusella on Cunninghamia in Okinawa. 6440
  of the blue green algae of Ceylon. 559
  of Boletus from North Carolina. 5205
  of Bondarzewiaceae. 2464
  of Bossiella. 3136
  of Botryocladia from the Gulf of Guinea. 5822
  of Brettanomyces abstinens. 587
  of Canadian marine zooplankton. 3198
  of Cantharellus. 4679
  of Ceratocystis associated with the aspen ambrosia beetle. 5213
  of Chaetomium. 5832
  of Chlamydomonas. 4667
  of Chlorophyceae. 3869
  of Chrysochromulina, from Norway. 4664
  of Chrysochromulina mactra. 3857
  of Chrysochromulina parkeae. 5220
  of Cladonia. 599
  of Clavariadelphus. 6453
  of cleistothecial Ascomycetes. 3892
  of Coelomomyces from Marion Lake, British Columbia. 4731
  of Coemansia. 1850, 2451
  of Colletogloeum fouquieriae on Ocotillo. 7076
  of Congregatocarpus. 1212
  of Conocybe subgenus Pholiotina. 1876
  of Coprinus of the Yukon Territory and adjacent Alaska. 1232
  of Coprotus from North America. 5833
  of Corallinaceae. 5823
  of Craspedodidymum. 3909
  of Crucibulum cyathiforme. 1872
  of Cutleriales new to Argentina. 6434
  of Cyanidium caldarium. 4661
  of Cyathus crassimurus from Hawaii. 1233
  of Cyathus pictus from Mexico. 1234
  of Cymbella cursiformis. 7040
  of Cyphelium in Europe. 600
  of discomycetes. 2458
  of Discosiella sydow and Discosiellina. 6469
  of Doliomyces. 3910
  of Echinostelium lunatum. 5189
  of Echinostelium with protostelid affinities. 1847
  of Eimeria from Malaysian rats. 1892
  of Eimeria from the pika. 3937
  of Elaterodiscus. 5812
  Emericellopsis stolkiae from Wyoming. 1858
  of Encephalitozoon cuniculi. 1893
  of Endemosarca. 3145
  Endomyces geotrichum as perfect state of Geotrichum candidum. 5844
  of Entophyctis confervae-glomeratae. 3146
  of Eocene Charophyta. 6431
  of Epicoccum nigrum. 588
  of Epithele. 3903
  of European polypores. 6452
  of Eustigmatophyceae. 7041
  of flagellates and algae published in 1969. 3141
  of freshwater diatoms from middle China. 3125
  of fungi on timber from water-cooling towers. 1226
  of Fusarium of the Martiella section in Israel. 3911
  of Gaeumannomyces graminis and related fungi. 5197
  of Garniidae in the blood of reptiles. 1898
  of Glaucocystis nostochinearum. 3854
  of Gliomastix murorum and G. murorum var. felina. 590
  of Gloiosphaera clerciana. 5845
  of Gomphidius with revised description of the Gomphidiaceae and key to genera. 5208
  of Gongrosirella. 4669
  of Gonyaulax balechii. 571
  of Gymnoascaceae and keratinophilic fungi from Utah. 6447
  of Haplosporella from soil. 5214
  of Harposporium. 5215
  of Halosacciocolax parasitic on Rhodymenia palmata. 7056
  of Helminthoclodia senegalensis. 5824
  of Hemiascomycetes. 1864
  of Herpetomonas muscarum. 1885
  of Holwaya, Crinula, Claussenomyces and Corynella. 1860
  of Hydnellum. 6456
  of Hydnum. 6455

**Taxonomy/structure**, contd.
- of Inocybe geraniodora from Czechoslovakia. 581
- of Ischadites abbottae. 567
- of Kudoa from the spot. 6477
- of Lambertella from India. 6444
- of Leishmania. 1253
- of Leptolegniellaceae fam.n. 1851
- lichens of tropical Africa. 601
- of some lignicolous Basidiomycetes of South-eastern USA. 3902
- of Limacinula and its relationship Phaeosaccardihula. 5198
- of living and fossil Pyrophacus. 2441
- of Lophodermella on Pinus. 7065
- of Macroventuria. 3152
- of marine algae of California. 560
- of marine planktonic Dinoflagellates. 5819
- of Mortierella from North Carolina. 5191
- of Mortierella umbellata from Georgia. 6439
- of Myxomycetes. 1846
- of Myxomycetes from Texas. 1849
- of myxosporida in the mosquitofish. 3939
- of Nitzschia pungiformis. 2432
- of Nizymenia and Stenocladia. 574
- of Nummularia from North America. 3272
- of Oscillatoriaceae. 556
- of Oncobasidium. 2465
- of Padixonia. 5218
- of Palmoclathrus. 568
- Paraphysomonas butcheri. 3860
- of Parmelia pustulifera from southern USA. 5849
- of Peniculistoma mytili, from Mytilus edulis. 4693
- of Peridinium gregarium. 2439
- of Peridinium penardii. 2440, 3132
- of Phellinus in western North America. 5207
- of phragmosporous Phaeostilbeae from a rubber estate in Kerala. 6468
- of Phyllachora from India. 3896
- of Phyllophora. 3885
- of Phyllosticta from Maharashtra. 3176
- of Phyllosticta maydis. 2466
- of Pichia. 2460
- of Pichia from the ambrosia beetle. 2459
- of Pichia besseyi. 3897
- of Pistillaria fusiformis. 5830
- of Polyblastiopsis, Mycoglaena, and Winteria. 1882
- of Poria vincta. 7073
- of Porphyra on the Pacific coast of North America. 3886
- of Predaea weldii from Hawaii. 2445
- of Pringsheimiella conchyliophila in culture. 5186
- of Protostrome indica from India. 3914
- of Prototheca filamenta. 5815
- of Psathyrella. 1877
- of Pseudofavolus patouillard in Central Africa. 3278
- at Pseudophycordrys rainosukei. 1213
- of Rivulariaceae and Scytonemataceae in Europe. 1834
- of Saturn-spored Pichia. 1865
- of Scenedesmus. 5816, 5817
- of Scenedesmus shensiensis. 3871
- of Schizothyriaceae from the Pacific Northwest. 1857
- of Schizothyrioma. 3271
- of Sciniatosporium. 1248
- of Seirospora. 4673
- of Sphacelaria, statistical approach to. 2443
- of Spathularia and Spathulariopsis. 6450
- of Stephanodiscus binderanus or Melosira binderana. 6429
- of Stereum. 3167
- of a stilbellaceous fungus from Missouri soil. 1881
- of Sympodiomyces from southern marine waters 593
- of Tenarea tessellatum from Hawaii. 3138
- of Testudinaceae. 1869
- of Thelotrema wightii. 3179
- of the Thigmophryidae. 3197
- of Tichothecium alectoriae on Alectoria ochroleuca. 1228
- of Tilletiaria. 3904
- of Trematosphaeria. 5203
- of Ulocladium from Egypt. 7083
- of Ustilago on Cyperus lucidus in Australia. 5840
- of Vacuolaria virescens in North Carolina. 3288
- of Vestigium. 6470
- of West African Charophyceae. 5183
- of white-spored Hydnaceae. 2463
- of yeasts from Japan. 3907, 3908
- of yeasts resembling Candida krussei. 3906

**Taxonomy/structure/biochemistry**, of Parmelia. 3918

**Taxonomy/structure/ecology**, of Scenedesmus. 4000

**Taxonomy/structure/sexuality**, of Magnaporthe salvinii. 6445

**Tay region**, mercury in marine organisms of. 702

**TBZ**, as fungicide for sweet potato seed treatment. 4607

**Te 85**, therapeutic activity of in the equine infection with Trypanosoma evansi. 3712

**Tea plant**, uptake and effectiveness against stem canker of benomyl by. 2377

**Teak forest**, of Gorakhpur, studies on soil fungi from. 6998

**Tecnazene**, resistance of spores of Botrytis cinerea resistant to. 912

**Teeth**,
- bacteriological examination of root canals. 474
- of children, incidence of Candida albicans in the plaques of. 4741

**Teliospores**,
- of Melanopsichium eleusinis, electron microscopy of. 3161

**Teliospores, contd.**
  of Puccinia carthami, effect of host plant materials and temperature on germination of. 7118
  of Ravenelia hobsoni, germination of. 1281
**Teliospores (hydrating)**, of Ustilago hordei, pregermination development of. 6463
**Temperate areas**,
  algal nitrogen fixation in. 5364
  tropical parasitology problems in. 414
**Temperature**;
  alteration of freeze response in Neurospora crassa conidia by additives. 1515
  distribution of Chondropsis semiviridis in relation to. 3283
  effect on Aspergillus and its production of Aspergin. 885
  effect on the blue-green algae of Bead Geyser, Yellowstone National Park. 2709
  effect of on cell division in heat-synchronized cells of Tetrahymena. 6116
  effect on cellulolytic activity of fungi. 302
  effect on Chytridiales and Blastocladiales. 1510
  effect on colonization and sporulation of Botrytis pathogen on geranium. 5094
  effect on commensal ciliates of the digestive tube of batracians. 2081
  effect on Conidia formation by Cercospora beticola on sugar beets. 4257
  effect of on cultural differences between races T and O of Helminthosporium maydis. 7375
  effect on development of gangrene following laboratory inoculation of potato tubers with Phoma exigua var. foveata. 2064
  effect on development and treatment of Cercospora in banana. 891
  effect on Entomophthora resting spores. 301
  effect on evolution of Trypanosoma cruzi in triatomines. 1735
  effect on eyespot in wheat seedlings. 508
  effect on fatty acid composition of Candida utilis. 241
  effect on Fucus virsoides. 3447
  effect on germination and ethanol soluble carbohydrate physiology of Claviceps purpurea sclerotia. 2719
  effect on germination and longevity of Chaetomium thermophile var. coprophile ascospores. 2061, 2718
  effect of on germination of Puccinia carthami teliospores. 7118
  effect on growth of Amorphotheca resinae in culture. 620
  effect on growth and fruiting in Doratomyces nanus. 2732
  effect of on growth models of cultures with 2 liquid phases. 6730
  effect on local Candida albicans lesions in the white mouse. 466
  effect on mRNA translation in Tetrahymena. 1380
  effect on 2 marine phycomycetes. 1509
  effect on Monascus. 2062
  effect on the morphometrics of Aphelenchus avenae. 1832
  effect of on Mycosphaerella fragariae and strawberry leaf spot development. 6914
  effect on nitrate reductase activity in Cyanidium caldarium in vitro. 3305
  effect of nutrition of Physarum polycephalum on resistance to. 5466
  effect on oospore germination in Pythium aphanidermatum. 619
  effect on pathogenicity of Pythium on soybean. 883
  effect on proline transport in Saccharomyces chevalieri. 202
  effect of on psychrophilic growth of Chaetostylum fresenii. 6090
  effect of on regulation of DNA synthesis in Chlorella synchronous cultures. 5458
  effect on Saccharomyces cerevisiae. 304
  effect on solute accumulation by Candida utilis. 889
  effect of on spore swelling of Aspergillus niger and Trichoderma viride. 7372
  effect on sporulation of Alternaria solani. 4856
  effect on sporulation of Peronospora manshurica. 832
  effect of on survival of Candida albicans in meat. 1179
  effect on survival of fungal sclerotia. 310
  effect on symptom development and sporulation of Guignardia citricarpa on Citrus sinensis. 4245
  effect on taxonomic characters of Diplodia. 3466
  effect on Tetrahymena pyriformis throughout the cell cycle. 4867
  effect on thermophilous fungi of coal spoil tips. 1806
  effect on viability of Macrophomina phaseoli from potato. 307
  effect of wheat infection by Cercosporella herpotrichoides. 664
  features of resistance to in Trichomonas. 5482
  freeze response of Neurospora crassa conidia. 1516
  of frozen mushrooms, colour change indicator for. 2780
  growth of fungi and bacteria from temperate and antartic soils in relation to. 1319
  growth of Rhizoctonia solani in relation to. 6106
  induction of division synchrony in Blepharisma intermedium by. 7135
  induction of explosive migration of Paramecium by. 312
  induction of synchronous differentiation of ascogonia in Neurospora by. 3217
  infection of wheat seedlings by Septoria nodorum in relation to. 2379
  isolation of Entamoeba histolytica adaptable to.

**Temperature, contd.**
- 5550
- ordination of phytoplankton populations in ponds varying in. 7170
- of potato tubers, effect of on incidence of mechanical damage during grading and of gangrene during storage. 3839
- prevention of spread of yellow rust of corn by. 1151
- regulation of Perithecium development and maturation in Pleospora herbarum by. 1275
- relationship to concentrations of airborne sporangia of Pseudoperonospora humuli. 2489
- responses of Paramecium to changes in. 4269
- selective effects of injury by on mouse peritoneal macrophages. 6102
- sporulation in the Aspergillus glaucus group in response to. 1283

**Temperature (37°C)**, propagation and survival of Trypanosoma brucei in vitro at. 2134

**Temperature (77°K)**, restorative effect of on the fluorescence intensity and fluorescence induction of photosynthetic material at. 5460

**Temperature (-196°C)**,
- effect on encystment of Entamoeba histolytica in culture. 2137
- survival of Paramecium aurelia at. 1531

**Temperature (air)**, influence of on brown stem rot of soybean. 3027

**Temperature (ambient)**, influence of on course of experimental trypanosomiasis in mice. 5051

**Temperature (constant and fluctuating)**, effect of on the in vitro growth of Ceratocystis. 7365

**Temperature (culture)**, effect on carotenoid composition of Anacystis nidulans. 2708

**Temperature (growth)**,
- effect of on the composition and physiology of microorganisms. 7377
- lipid composition of Saccharomyces cerevisiae as influenced by. 4812

**Temperature (high)**, see also Thermal and thermo.
- dewatering of wastewater sludge by. 7028
- effect of on Byssochlamys fulva ascospores. 7364
- effects of on spore swelling and germination in Aspergillus niger. 6668
- effect on Verticillium wilt infection after treatment of soil with. 3094
- lethal and mutagenic effect of on haploid yeast. 4275
- morphology and infectivity of Leishmania donovani cultivated in nonliving media at. 2132
- susceptibility to nonpathogens induced by and cross-protection against Phytophthora megasperma var. sojae in soybean. 7623
- tolerance to of reef algae at La Parguera, Puerto Rico. 7358
- treatment of wines to eliminate yeasts causing biological instability by. 1519

**Temperature (incubation)**, effect on Cladosporium herbarium isolated from air. 4258

**Temperature (low)**,
- dimethyl sulphoxide in the preservation of Babesia bigemina at. 1582
- drying and freezing rate related to the effect of UV irradiation of Colpoda maupasi resting cysts under. 6125
- effect on infectivity of Entamoeba dysenteriae trophozoites. 3475
- effect on Neurospora crassa spores. 3456
- effect on pathogenic amoebae and trichomonads. 4266
- effect of shortwave UV light on resting cysts of Colpoda maupasi at. 3492
- maintenance of virulence of dry Colletotrichum trifolii inoculum with. 3473
- resistance to in interspecific vine hybrids. 493
- resistance to of some macrolichens. 4265
- response of Aspergillus and Penicillium spores to UV light at. 3487
- restorative effect on amoebas after UV radiation. 902
- utilisation of n-paraffin by marine yeast for fermentation at. 2703

**Temperature (melting)**, of pure yeast tRNA salts, abnormal dependence of on ionic strength of solution. 892

**Temperature (room)**, chlorophyll B fluorescence and emission band at 700 nm at in green algae. 4835

**Temperature (soil)**,
- effect on growth of Macrophomina phaseoli and Sclerotium rolfsii in soil. 4262
- effects on survival in soil of zoospores of Phytophthora cactorum. 4616

**Temperature (various)**,
- comparative growth of Cyanidium caldarium on nitrate and ammonia at. 7348
- control of black rot of sweet potatoes with fungicide dips at. 1104
- effect on fatty acid composition of Candida utilis. 1526
- effects of fungicide dips at on the occurrence of sweet potato scurf. 5118
- fungi associated with blueberries held at. 4648
- observations on the oocyst production and viability of Eimeria in the chorioallantois of chick embryos incubated at. 5485

**Temperature difference spectra (low)**, of mitochondria from mycelia grown with and without chloramphenicol. 4214

**Temperature-enhanced osmotic growth requirement**, of Crithidia. 6109

**Temperature optima**, for Dunaliella photosynthesis. 859

**Temperature requirement**, of Basidiobolus, studies on. 6661

**Temperature sensitive mutations**, affecting ribosome synthesis in Saccharomyces cerevisiae. 4384

**Temperature sensitive mutant**,
  of Saccharomyces cerevisiae, mitochondrial and cytoplasmic protein synthesis in. 201
  of Schizosaccharomyces pombe, isolation of. 3588
  of Ustilago maydis, recombination during blocked chromosome replication in. 6210
  of yeast fatty acid synthetase. 3581
**Templates (rare DNA)**, participation of DNA/RNA hybridization of Tetrahymena pyriformis. 3595
**Tenebrio molitor**, infection and reinfection by eugregarines. 1745
**Teneriffe**, observations on littoral and sublittoral zonation at. 3248
**Tentacle (Suctorian)**, microtubules model for ingestion and transport in. 3576
**Tenuazonic acid**,
  from Alternaria alternata. 4825
  investigation on the toxic production by several blast fungi and isolation of. 7320
**Tephritidae (larval)**, protein products for rearing of. 7691
**Tephrosia rogelii**, in India, occurrence of wilt and stemburn disease in. 3752
**Teratology**, of Phallus impudicus. 582
**Termite**,
  laboratory evaluation of methods for inoculation of with entomophthoraceous fungi. 7439
  studies on nutritional physiology in after selective elimination of gut symbionts with drugs. 6704
  ultrastructure of a flagellate found in. 5221
**Termite (eastern subterranean)**, effect of wood decayed by Lenzites trabea on the fatty acid composition of. 6408
**Termite (subterranean)**, Dimeromyces on. 5286
**Termite (yellow-necked)**, life cycle of Hexamastix termitis during imago moult of. 3229
**Tern (Forster's)**, hunting behaviour and success of. 4640
**Ternary complexes**, of an allosteric pyruvate kinase from yeast, proton relaxation and kinetic studies of. 7255
**Terpene**,
  role of glycine in the biosynthesis of. 1999
  in Saccharomyces cerevisiae, synthesis and metabolism of. 5402
**Tersan OM**, control of Fusarium blight of Merion Kentucky blue grass with. 2362
**Tests**, for identifying yeasts, selection of. 360
**Tests (inoculation)**, using Peniophora gigantea on stumps of eastern white pine. 2334
**Tests (Orbulina)**, from Northern Italy Neogene, detailed observations on. 1256
**Tetanus toxoid**, depression of antibody responses to in mice infected with malaria parasites. 7514
**Tetracycline**,
  as antifungal agent, antifungal properties of polymyxin B and its potentiation of. 6697
  and candidiasis prevention in surgery. 1684
  comparison of with trimethoprim/sulphamethoxazole compound in excerbations of chronic bronchitis. 7537
  effect against chloroquine-resistant and sensitive Plasmodium falciparum. 2265
  effect of as antimalarial in man. 2929
  genetic analysis of mitochondrial resistance to in Saccharomyces cerevisiae. 4387
  sensitivity of Blastocladiella emersonii spores to. 906
  suppression of witches' broom growth in cacti by treatment with. 1128
  treatment of nongonococcal urethritis with. 2905
  treatment of acute falciparum malaria in Thailand with. 5034
  treatment of chloroquine-resistant falciparum malaria in Thailand with. 5647
  treatment of pulmonary mycoses with. 2241
  treatment of skin diseases with. 1697
**Tetracycline hydrochloride**, control of spike disease of sandal by. 5135
**Tetracycline therapy**, complications of in acne. 6257
**Tetrad**, evidence for meiotic recombination in Ascobolus involving only one member of. 2825
**1,2,3,4-Tetrahydro-6-aminochinoline**, as antimalarial. 6142
**Tetrahymanol**, in Tetrahymena membranes, replacement by ergosterol. 245
**Tetramethyltiuramidisulphide**, use of for seed treatments. 3071
**Tetramycin**, from Streptomyces noursei, isolation of. 853
**Tetranychus telarius**, in Israel, Triplosporium floridanum attacking. 7580
**Tetraspore (carpo)**, Helminthocladia senegalensis with. 5824
**Tetraspore germination**, of Spathoglossum pacificum and Dictyopteris undulata. 7104
**Tetrasporophyte**, of Scinaia japonica. 3208
**Textile (cellulose)**, microbial degradation of. 6414
**Thai families (rural)**, field survey of for ingested aflatoxins. 4437
**Thailand**,
  aflatoxins in autopsy specimens from children. 2225
  aflatoxins in market foods and foodstuffs of. 4439
  duration of primary liver cancer and prevalence of hepatomegaly in. 4954
  evaluation of in vitro technique for detecting chloroquine resistant falciparum malaria in. 4351
  incidence of primary liver cancer in municipal populations of. 4953
  minocycline and tetracycline treatment of acute falciparum malaria in. 5034
  tetracycline treatment of chloroquine-resistant

- **Thailand**, contd.
  - falciparum malaria in. 5647
- **Thallium**, energy-dependent uptake of by Chlorella. 2058
- **Thallus**,
  - of Acrochaetium, action of some monochromatic radiations on the growth of. 6088
  - of Delisea fimbriata, morphological study of. 573
  - of lichen, relationship between moisture content and net assimilation rate of, ecological significance. 4747
  - of Lobaria laetevirens, structure of. 4688
  - of Parmelia phycobionts, growth of and the distribution of stored metabolites. 103
  - of Stigeoclonium farctum, morphogenesis of. 3954
- **Thallus (foliose)**, of Weeksia fryeana, development of. 614
- **Thallus (fungal)**, growth ramification and cellular differentiation of. 83
- **Thallus (lichen)**, method for culture of under controlled conditions. 7453
- **Thallus form**, in Florideophyceae, cell enlargement in relation to the development of. 3959
- **Thamnomys**, sporozoite-induced oral route Plasmodium berghei infections in. 1085
- **Thamnomys surdaster**, ultrastructural study of the pre-erythrocytic development of Plasmodium berghei in. 6479
- **Theca**,
  - of Gymnodinium, ultrastructural studies on. 6474
  - of Ornithocercus, scanning electron microscopy of. 2438
- **Thecal plates**, of Peridinium trochoideum, fine structure of. 3876
- **Thecate stage**,
  - of Pyrocystis, unpublished observations on by C. A. Kofoid and Josephine Michener. 5868
  - in Pyrocystis acuta, asexual reproduction through. 5867
- **Theileriasis**, in exotic cattle and a buffalo in Punjab. 6316
- **Thermal Cyanophyceae**, from South Orissa. 6517
- **Thermal denaturation**, in acidic solutions of double-helical RNA from virus like particles in Penicillium chrysogenum. 1788
- **Thermal dimorphism**, of Paracoccidioides brasiliensis, biochemical studies on. 5468
- **Thermal effluent systems (Yellowstone)**, ecology of. 7141
- **Thermal habitat**, of the central volcanic region, New Zealand, microbiological studies of. 5905
- **Thermo-adaptable Entamoeba histolytica**, use of thermo-resistance and culture in hypotonic media for characterising. 4346
- **Thermodynamics**, of the chemostat. 4927
- **Thermophilic fungi**,
  - agar-diffusion assay of thermophilic fungi. 2779
  - central South Carolina forest soils. 5147
  - in coal spoil tips. 1794, 1806
  - of coal spoil tips, taxonomy of. 1240
- **Thermotolerant and thermophilic microorganisms**, growing on media with liquid paraffin, physiological properties of. 5535
- **Thermozymocidin**, produced by a thermophilic eumycete. 7316
- **Thiabendazole**,
  - control of blue and grey mold in wounded apples by. 5165
  - control of common and dwarf bunt of wheat by seed treatment with. 1123
  - control of Fusarium blight of Merion Kentucky blue grass with. 2362
  - control of Nectria decay of apples by postharvest dip with. 2411
  - control of Pithomyces by. 5121
  - control of Rhizoctonia blight of Florida Ruffle fern with. 520
  - control of stem blight of Vinca minor by. 5120
  - differential sensitivity to by Penicillium italicum and P. digitatum. 4894
  - effect on the mycoflora of pasture plant leaves. 5122
  - effect of at various temperatures on the occurrence of sweet potato scurf. 5118
  - evaluation of as postharvest fungicide for apples. 2415
  - evaluation of as sweet potato seed treatment fungicide. 5075
  - local use of for the treatment of superficial mycoses. 2242
  - suppression of ascospore production by Venturia inaequalis by. 4886
  - treatment of chromomycosis with. 2245
- **Thiamine**,
  - in Candida growing on glucose and hexadecane, content of. 1499
  - effect on the L-malate fermentation by Schizophyllum commune. 4255
  - in Lake Sagami. 7164
  - of marine phytoplankton. 7333
- **Thiamine destruction**, failure to demonstrate in polioencephalomacia. 6873
- **Thiamine diphosphate analogues**, investigation of yeast pyruvate decarboxylase with. 732
- **Thiazole**, adaptive biosynthesis of and by-passing of the thiazole requirement in Exobasidium by acetyl phosphate, tween and ethanol. 6037
- **Thiazole compounds**, chemotherapy of smut and rust pathogens in Poa pratensis by. 3021
- **Thiazole derivatives**, genetic evidence for the action of on the succinic dehydrogenase system of Ustilago maydis mitochondria. 6131
- **Thiazolines**, synthesis of and possible use as fungicides. 4301
- **Thiazolylureas (substituted)**, antimicrobial effect

**Thiazolylureas (substituted), contd.** of. 4307

**Thigmotropic stimulus**, measurement of. 6099

**Thioacetamide**, as post harvest chemical treatment of apple against rot and deterioration. 540

**Thioglycolic acid**, isolation of nucleic acids from microfungi by treatment with. 1372

**Thiol groups (essential)**, of yeast alcohol dehydrogenase, role of. 3326

**Thiophanate**,
- comparison of in vitro antifungal spectra of. 4299
- control of Fusarium blight of Merion Kentucky blue grass with. 2362

**Thiophanate derivatives**, problems in the development of. 5133

**Thiophanate methyl**, control of powdery mildew of greenhouse strawberries with. 5088

**Thioredoxin**, of yeast, amino-acid sequence around the active-centre disulphide of. 1437

**Thiosulphate**, oxidation of elemental sulphate to, by Streptomyces. 291

**Thiram**,
- control of Helminthosporium stripe of barley by. 5112
- control of scab in apple with. 918
- effect on Aspergillus niger in vitro. 6134
- effect on growth and sclerotia production of Sclerotium rolfsii. 915
- efficacy of in controlling collar rot of groundnut. 6354
- toxicity of against seed-borne pathogens of maize. 2355

**Thorax**, management of localised infections of in immunosupressed patients. 2877

**$^{234}$Thorium**, accumulation of by marine algae. 2084

**Threo compounds**, antimalarial activity and conformation of. 3513

**Threonine**, in Crithidia fasciculata, methionine or folate and phosphoenol pyruvate in the biosynthesis of. 4145

**Threonine deaminase**, in Saccharomyces cerevisiae, involvement in multivalent repression of the isoleucine-valine pathway. 740

**Throat**, incidence of fungi in. 2190

**Thrombopenic purpura (idiopathic)**, acute relapses of at the time of infectious episodes. 6852

**Thrombolytic treatment**, with Brinase$^{R}$ of dogs with experimental pulmonary embolism. 7243

**Thrombosis**, contribution to the pathogenesis of in haematogenic infections of the CNS with Candida albicans. 1682

**Thrombocytes**, of Tropidurus torquatus, asexual and sexual stages of Plasmodium tropiduri in. 490

**Thylakoid**,
- of photosynthetic bacteria and blue-green algae, serological investigations on. 5592
- in red, brown, and blue-green algae, uniformity of structure of. 2446

**Thymectomy**, effect of on the course of infection of CBA mice with Leishmania tropica. 4506

**Thymidine**,
- convertion to thymine ribonucleoside in the hydroxylase reaction. 2596
- phosphorylation of in different organisms. 148

**$^{14}$C-thymidine**, effect of antimalarial drugs on uptake and incorporation of by Tetrahymena pyriformis. 3519

**3H-Thymidine**, incorporation of in Amoeba discoides cytoplasm. 4760

**Thymidine monophosphate**, kinetics and genetic control of the incorporation of in yeast DNA. 5952

**Thymine/thymidine metabolism**, in Neurospora crassa, oxygenases involved in. 3320

**Thymine uptake**, in Chlamydomonas, stimulation of following UV radiation. 2741

**Thymocyte serum (anti)**, effect of on experimental toxoplasmosis in mice. 7517

**Thymoma**, case report associated with chronic mucocutaneous candidiasis. 3640

**Thymus**,
- role on in Plasmodium berghei infection of mice. 5695, 7609
- transplantation of, in chronic mucocutaneous candiasis. 437

**Thyroid status**, influence of on chronic mucocutaneous candidiasis. 6822

**Thyrotoxicosis**, associated with Aspergillus thyroiditis in chronic granulomatous disease. 3631

**Thyroxine turnover**, relationship with thyroxine binding proteins and free thyroxine during acute infectious illness in man. 7574

**Tick**,
- attempts to transmit Babesia microti in laboratory mice by. 5683
- infection rates of with Babesia bigemina. 1078
- natural infection of Toxoplasma gondii sought in. 5707

**Tick (Babesia-infected)**, maintenance of in artificial culture medium. 6161

**Tick (cattle)**, estimation of infection rates with babesia in. 417

**Tick (female)**, fine structure of merozoites of Babesia ovis in the salivary glands of. 3721

**Tick fever**, evaluation of recent outbreaks in northern Queensland of. 1076

**Tide simulating apparatus**, preliminary results on factors causing zonation in Enteromorpha using. 5522

**Tidepool**, observations on ecology of and behaviour of Peridinum gregarium. 2523

**Tiger**, in India, trypanosomiasis in. 6878

**Tilapia**, causes of mortality in in Lake Chilwa. 6514

**Tillex**, effect on Aspergillus niger in vitro. 6134

**Tinea**, caused by Trichophyton rubrum. 2237

- **Tinea capitis**,
  - with Microsporon gypseum. 6263
  - in Nagpur, clinical and mycological study of. 5632
- **Tinea corporis**, Nannizzia incurvata infection causing. 2224
- **Tinea faciale**. 5630
  - due to Microsporum canis in an 8-day old infant. 5629
- **Tinea nigra**, of the hand. 2891
- **Tinea pedis**,
  - in Greece. 2192
  - long term treatment with Pimafucin. 445
  - pathogenesis of. 446, 2901
- **Tinea versicolor**,
  - high incidence of in Puerto Rico. 6775
  - selenium sulphide treatment of. 3648
- **Tinidazol**, in the treatment of vaginal trichomoniasis. 2252
- **Tinidazole**, in vitro activity on isolated str of Entamoeba histolytica. 343
- **Titanium**, fungal leaching of from rock. 1831
- **Titanium microquantities**, in plankton and foraminiferal tests, determination of. 7344
- **Tiuramslurry dressing**, use of for seed treatments. 3071
- **Tobacco**,
  - analysis of for Alternaria toxins. 3834
  - antifungal spectra of actinomycetes isolated from. 4888
  - control of black shank in through varietal development and evaluation. 2320
  - control of Verticillium wilt of with benomyl. 3067
  - diseases of involving Meloidogyne incognita. 2989
  - inheritance of resistance to blue mould in. 5069
  - lesion and epidemic development of Alternaria longipes on. 3769
  - mechanism of Peronospora resistance in. 2978
  - Pyrenochaeta lycopersici, causing brown rot of. 1145
- **Tobacco (flue-cured)**, Rhizopus arrhizus causing pole rot of in Ontario. 5789
- **Tobacco III**, microbiological and biochemical investigations on the mechanism of Peronospora resistance in. 3748
- **Tobacco condensate**, analysis of for penicillic acid. 7307
- **Tobacco leaves**,
  - Lepidocyrtinus eating the colony of tobacco powdery mildew on. 5287
  - relationship of pathogenicity to and toxicity to chicks of isolates of Alternaria longipes. 4565
- **Tobacco seedling**, effect on plant vigour and on susceptibility to Thielaviopsis root rot of transplanting in pea pots. 6363
- **α-Tocopherol**, content of in blue-green algae. 277
- **Tocopherol isomer (unusual)**, with an O-methyl group from Euglena gracilis. 6649
- **Togolese population**, distribution of haemoglobin and G6PD variants in relation to malaria endemicity in. 5591
- **Tok-E25**, effect of soil microflora. 5152
- **Tolerance**, development of to systemic fungicides by phytopathogenic fungi. 5518
- **Toluene-treated Chlamydomonas reinhardtii**, synthesis of DNA in. 5305
- **p-Toluenethiol**, initiation of autolysis in bakers' yeast by. 3458
- **2-p-Toluidine-naphthalene-6-sulfonate**, of yeast pyruvate decarboxylase binding of. 182
- **Tomato**,
  - biochemical basis for the defence reaction of to Cladosporium fulvum. 5744
  - change in amino acids, carbohydrates and ascorbic acid after fungal infection in. 509
  - chemical method for estimating Fusarium oxysporum f.lycopersici in. 2124
  - effect of some growth retardants on Fusarium and Verticillium wilt of. 1138
  - effect of intensity and quality of light on peroxidase activity associated with Septoria leaf spot of. 1783
  - effect of phenanthrene and xanthene derivatives on Fusarium and Verticillium wilt of. 3778
  - effect of soil pH and micronutrient amendments on Verticillium and Fusarium wilt of. 5130
  - effect of various fluorene derivatives on Fusarium and Verticillium wilt diseases of. 2358
  - evalation of and hybrid resistance to leaf mould. 6356
  - in France, first observation of Fusarium wilt of. 6957
  - morphology and growth conditions of dark-pigmenting moulds from. 5755
  - post-infectional production of inhibitor of Fusarium oxysporum f. lycopersici by. 5108
  - resistance in to anthracnose fungi. 7655
  - resistance to corky root in. 6976
  - storage rot of caused by Geotrichum candidum. 3837
  - synthesis of a jointless Fusarium wilt resistant str of by circumvention of the X gametophytic factor. 1141
  - target spot of. 5102
  - water relations of Fusarium wilt in. 2357
- **Tomato (jointless)**, inheritance of Fusarium resistance in as affected by the X gametophytic factor. 5109
- **Tomato anthracnose**, aerial application of fungicides for control of. 6991
- **Tomato early blight resistance**, field evaluation for. 2349
- **Tomato Fusarium wilt fungus**,
  - prevention of the spread of race 2 of. 7662
  - symptomless carriers of. 3045
- **Tomato introductions**, anthracnose resistance in $F_2$ populations derived from. 7654

**Tomato isolines (susceptible and resistant)**, Fusarium wilt of. 7664
**Tomato leaves**,
  conditions of infection by Phoma destructiva in. 2375
  infected by Fusarium oxysporum f.sp.lycopersici, gas exchange studies on transpiration and photosynthesis of. 3046
  natural infection of by Pleospora herbarum. 6339
**Tomato powder (dehydrated)**, method for preparation of for examination by the Howard mold count method. 3552
**Tomato xylem sap**, changes in amino-acid content of following infection with Verticillium alboatrum. 7676
**Tonsillitis (chronic)**, association between Candida and pathogenic staphylococci in. 435
**Topotaxis**, in Chlamydomonas, relationship between stimulus intensity and. 3438
**Tortoise**, bizarre forms of aetiological agent in experimental Norge Lobo's disease in. 1729
**Tortoise (Brazilian)**, Sarcocystis gracilis from. 133
**Toruloma (intra-pulmonary)**, case of in France. 1688, 2233
**Toucan**, malaria parasites of. 2309
**Towers (water-cooling)**, new fungi on timber from. 1226
**Toxic culture filtrate**, of Penicillium purpurogenum, effect on HeLa cells. 3386
**Toxic manifestations**, of Busulfan therapy. 4490
**Toxicity**,
  of Blastomyces dermatitidis. 1724
  of Helminthosporium maydis, studies on. 5045
  lack of in Helminthosporium maydis-invaded corn and culture filtrates to chicks and mice. 1183
  of limonene and citrus peel extracts to Guignardia citricarpa. 4288
  of methyl-1-(butylcarbamoyl)-2-benzimidazole carbamic acid on fungi. 6135
  of Penicillium citrinum. 262
  of systemic fungicides against seed-borne pathogens of maize. 2355
**Toxicity (animal)**, of phytopathogenic fungi. 3384
**Toxicity (chronic)**,
  carcinogenicity of luteoskyrin and cyclochlorotine in mice. 5046
  method for testing of in Protozoa. 6164
**Toxicity (decreased)**, of phalloidin in partially hepatectomized rats. 4178
**Toxicity (fungal)**, in certain Hawaiian soils. 3804
**Toxicity (nephro)**, in swine, fungus as cause of. 2410
**Toxicity (phyto)**, of picloram and other substituted pyridines. 7004
**Toxicology**,
  of Fusarium nivale, isolation of fourth metabolic substance. 1482
  of Fusarium tricinctum from moldy corn. 3700
**Toxicoses (experimental myco)**, similarities with kikuyu poisoning of cattle. 6870
**Toxicoses (myco)**,
  induction of in mice by Penicillium ochraceum. 3703
  pathogenesis, diagnosis and control. 461
**Toxicoses (stachybotryo)**, in chickens, diagnostic differentiation from fowl pox. 468
**Toxigenic fungi**, from poultry feed and litter. 7009
**Toxigenic Stachybotrys chartarum**, in Finland, discovery of. 3390
**Toxigenicity**, of Penicillium viridicatum, influence of cultural conditions on. 2076
**Toxin**,
  from Alternaria alternata. 4825
  of Alternaria, analysis of tobacco for. 3834
  of Amanita, identification of by thin-layer chromatography. 3541
  of Aspergillus ruber, extraction and properties of. 4647
  from Aspergillus viridinutans. 6634
  of Cochliobolus heterostrophus, genetic control of production of. 2154
  evidence for involvement of in deterioration of stored pea seed by Aspergillus ruber. 4646
  in foods of vegetable origin, moulds producing. 1191
  of fungal origin. 2029
  of Fusarium, nature and biosynthesis of. 7401
  of fusariosis wilt, nature and biosynthesis of. 1139
  from Gymnodinium breve, purification of by dry column chromatographic technique. 7323
  from Helminthosporium carbonum, amino acid composition of. 2682
  of Helminthosporium maydis, reactions of corn genotypes and cytoplasms to. 3054
  of Helminthosporium maydis, reactions of corn seedlings with non-sterile, Texas male sterile and restored Texas male sterile cytoplasms to. 6967
  from Helminthosporium maydis race T, production and relative host-specificity of. 4831
  of Helminthosporium maydis race T, use of to determine disease reaction of germinating corn seed. 4590
  from pathogenic Candida albicans, production of. 255
  from Plasmodium berghei, isolation of. 269
  production of by fungi. 2680
  of Toxoplasma gondii, effects of on rabbit eye. 4529
  from Trichoderma viride, oxygen requirements for, and effect of barbiturate. 264
**T-2 Toxin**,
  from Fusaria, survey of elaboration of. 6641
  improved skin tests for detection. 5546
**T-2/HT-2 Toxin**, of Fusarium tricinctum, chemical interconversion of. 259
**Toxin (austamide)**, from Aspergillus ustus. 254
**Toxin (helminthosporoside)**, from Helminthospor-

- **Toxin (helminthosporoside)**, contd.
  - ium sacchari. 261
- **Toxin (host-specific)**, of Periconia circinata, effects of on some properties of sorghum plasma membranes. 6972
- **Toxin (myco)**,
  - from Aspergillus clavatus. 3381
  - biological detection of. 4340
  - effect of on growth of Bacillus megaterium from spores. 4192
  - investigations on the toxicity of to larvae of the brine shrimp. 7322
  - produced by Pithomyces chartarum isolated from seed and fruit in Oregon. 1956
  - produced by Rhizoctonia leguminicola isolated from red clover forage, effects on rats and mice of. 4189
  - protective measures in work with. 6407
  - screening method for in corn and various corn products. 3542
  - from Trichoderma viride. 3392
- **Toxin (myco and other)**, variations in inhibition of growth of Chlorella by. 7395
- **Toxin (novel)**, investigation on the toxic production by several blast fungi and isolation of tenuazonic acid as. 7320
- **Toxin (phyto)**, in Neocosmospora, production of. 3380
- **Toxin (tremorgenic)**, from Aspergillus fumigatus. 2679
- **Toxin-treated sugarcane leaves**, ultrastructure of cells in. 5116
- **Toxoplasmic phase**, of certain coccidioses. 2504
- **Toxoplasmosis**. 6847
  - abortions and stillbirths in. 459
  - in a bluefox farm. 1750
  - of the canine nervous system. 2313
  - case report with cryptococcosis and Hodgkin's disease. 2933
  - causing mental retardation. 460
  - chemotherapy of experimental infection of. 1091
  - complication of corticosteroid- and cyclophosphamide-treated lupus erythematosus. 2273
  - critical evaluation of tests for the diagnosis of. 6806
  - determination of the degree of sensitivity of the field mouse to. 1089
  - of the dog and cat in Florence province. 2855
  - of domestic cats. 6319
  - in domestic rabbits, antibody titres following. 7520
  - effects of interferon inducer on acute ocular infection produced by intracameral inoculation with. 1092
  - and encephalitozoonosis. 1751
  - immunological response to, in population groups of São Paulo. 7516
  - and multinodular adiponecrosis. 5038
  - occurrence of in Sabah Hospital, Kuwait. 2240
  - in Puerto Rican children, serological and epidemiological study of. 4434
  - relation to habitual abortion. 2934
  - review. 993
  - role of in abortion. 3682
  - serological detection of. 3623, 7521
  - in sheep, serological evidence of. 4416
  - simplified in vitro method for measuring delayed hypersensitivity to. 7457
  - of Tasmanian wildlife. 6240
  - in ticks, natural infection of. 5707
  - trial of killed vaccine in prevention of ovine abortion due to. 2219
  - in tropical Africa. 6227
  - unsuccessful attempt of transmission of to mice from faeces of artificially infected sheep. 5066
- **Toxoplasmosis (acquired)**. 1054
  - pseudo-tapetoretinal degeneration with. 6853
  - study of concomitant occurrence of with malignant lympho-reticulo-endothelial diseases. 1718
- **Toxoplasmosis (acute)**, critical study of the Remington test for early diagnosis of. 2805
- **Toxoplasmosis (chronic nonclinical cerebral)**, in cats. 4528
- **Toxoplasmosis (congenital)**,
  - coincidence of and acute nephritis with nephrotic syndrome. 6851
  - relationship to deafness. 3683
  - study of 4,048 obstetric patients. 3681
  - studies in prophylaxis of. 3685
- **Toxoplasmosis (cyst-induced)**, in cats. 4531
- **Toxoplasmosis (experimental)**,
  - in the cat. 1746, 1749
  - in mice, effect of antithymocyte serum on. 7517
  - study on active and passive immunity in. 1668
- **Toxoplasmosis (fatal recurrent)**, in a patient initially infected via a leucocyte transfusion. 2272
- **Toxoplasmosis (human)**,
  - antibodies IgM, IgA and IgG in. 4435
  - evaluation of current progress in. 6226
- **Toxoplasmosis (lethal)**, in a woolly monkey. 3745
- **Toxoplasmosis (ocular)**, experimental studies on. 1090
- **TPNH**, differentiation between the structural and redox roles of in 6-phosphogluconate dehydrogenase. 6606
- **Trace element requirements**, of dense cultures of microalgae. 6168
- **Trace metals**, effect on growth and nitrogen content of lava. 3568
- **Tracheal aspiration (trans-)**, in the diagnosis of lower respiratory tract infections. 5011
- **Tracheal puncture**, in infectious pneumopathies, study of bacterial flora obtained by. 4441
- **Tracheomycoses**, of American carnation, use of benomyl against. 2372
- **Tragopogon**, Puccinia hysterium on. 6937
- **Tragulus javanicus**, coccidian parasites of. 6311

**Tragulus meminna**, Trypanosoma ingens from. 4043
**Trametenolic acid B**, constituent of Heterobasidion tasmanica. 285
**Transamidinase**, of Actinomyces streptomycini, activity of under different conditions of cultivation. 778
**Transaminases**, of wine yeasts, studies on. 5996
**Transaminase (aspartate)**, in Tetrahymena, subcellular distribution of. 7263
**Transaminase (glutamic oxaloacetic)**, from Entamoeba histolytica in axenic culture, activity of. 3341
**Transcarbamoylase (aspartate and ornithine)**, histochemical localization of in Neurospora. 5974
**Transcription**,
  in Neurospora of mRNA for glucose transport system. 705
  of mitochondrial DNA in vitro from Neurospora crassa. 140
  regulation of during the induction of nitrate reductase in Neurospora crassa. 5328
  site of in fatty acid synthetase from Chlamydomonas reinhardtii. 5960
  in yeast. 6199
  of yeast deoxyribonucleoprotein, absence of complete repression of specific part of DNA during. 710
**Transcription (in vitro)**,
  enzymic conversion of aflatoxin $B_1$ to a derivative inhibiting. 7306
  of mitochondrial DNA from yeast. 6576
**Transect**, statistical analysis of the ordering of diseased and healthy trees in. 4923
**Transfer factor**,
  immunological features in chronic granulomatous candidiasis and treatment with. 7531
  in treatment of chronic mucocutaneous candidiasis. 5008
**Transfer factors G (ribosome specific)**, selective inhibition of the reactions catalyzed by. 1389
**Transfer reaction**, catalyzed by phenylalanyl-tRNA synthetase from baker's yeast, effect of assay conditions on the magnesium requirement of. 5994
**Transferance (adoptive)**, of immunity to Plasmodium berghei with spleen cells. 426
**Transferance (cellular)**, of immunity to malaria in the mouse. 425
**Transferase (alanine amino)**, in Tetrahymena, subcellular distribution of. 7263
**Transferase (amino)**, polycations causing the release of by Trypanosoma brucei brucei. 6139
**Transferase (APS-sulpho)**, from Chlorella, mechanism of photosynthetic sulphate reduction in relation to. 6070
**Transferase (1,3-diphosphoglycerase:polyphosphate-phospho-)**, in Neurospora crassa, localization of. 1393
**Transferase (glucosyl- and acetyl)**, involvement of in the biosynthesis of glycolipids from Candida bogoriensis. 5351
**Transferase (phosphoribosylpyro-phosphate amido)**, unlinked mutation of Neurospora crassa lacking. 2826
**Transferase (tRNA nucleotidyl)**, from baker's yeast, isolation and properties of. 166
**Transformant**, of Candida albicans, immunological relationships of to Actinomycetales. 6769
**Transformation (interspecific)**, and DNA characteristics in Allomyces. 317
**Transformation (metabolic)**, of Trypanosoma rhodesiense in culture. 2796
**Transfusion**,
  induction of malaria by. 2854
  induction of malaria by after open heart surgery. 4488
**Transfusion (leucocyte)**, fatal recurrent toxoplasmosis in patient initially infected via. 2272
**Transhydrogenase (pyridine nucleotide)**, from Chlorella. 1971
**Transketolase-like enzyme**, in Chlorella pyrenoidosa, synthesis of 7-(adenosine-5'-pyrophosphoryl)-D-sedoheptulose by. 3307
**Translation**,
  regulation of during the induction of nitrate reductase in Neurospora crassa. 5328
  sites of in fatty acid synthetase from Chlamydomonas reinhardtii. 5960
**Translocase**, from Neurospora crassa, fusidic acid resistance in. 326
**Translocation**,
  in Laminaria. 4131
  in Laminaria saccharina. 4154
  of potassium in Phycomyces blakesleeanus mycelium, mechanism of. 2696
  of potassium in Phycomyces blakesleeanus sporangiophores, mechanism of. 2695
  in spring wheat, effect of general yellow rust infection on. 3012
**Translocation system (mitochondrial adenine nucleotide)**, modification of in the oxidative phosphorylation deficient mutant opl. 6198
**Transmethylation**, of sterols in aerobically adapting Saccharomyces cerevisiae. 2673
**Transmissible disease eradication**, successes and failures in. 6786
**Transmission**,
  of disease by arthropods. 6785
  of Leucocytozoon in corvid birds. 2300
  of Plasmodium falciparum between monkeys by the bite of infected Anopheles freeborni. 7611
  of Plasmodium gallinaceum by Anopheles quadrimaculatus infected with Nosema. 7612
  of Trichophyton mentagrophytes infection in monkeys to man. 4501
**Transmission (cyclical)**, antigenic types of Trypanosoma congolense after. 5601
**Transmission (experimental)**, of Trypanosoma

**Transmission (experimental), contd.**
gambiense to domestic animals. 473

**Transmission (non-cyclical),** of trypanosomes, feeding behaviour of Stomoxys in relation to. 6781

**Transmission (sporozoite),** of Plasmodium vivax in squirrel monkeys. 3743

**Transmission (vertical),** of encephalitozoonosis, evidence for. 7599

**Transpiration,**
in American elm seedlings as influenced by Dutch elm disease and plant-water stress. 7630
in fruit bodies of some hymenomycetes. 4854
in potato plants infected with Verticillium. 525
of reed, effect of Ustilago grandis infection on. 7644
of tomato leaves affected by Fusarium, gas exchange studies on. 3046

**Transplantation (bone marrow),** reverse isolation in, in ultra-clean room compared with laminar flow technique. 7555

**Transplantation (cadaveric renal),** infection after. 5009

**Transplantation (cardiac),** complication of by Aspergillus infection. 5003

**Transplantation (nuclear),** in amoebae, incompatibility phenomena under. 403

**Transplantation (renal),** urinary candidiasis after. 5012

**Transplantation (thymic),** in chronic mucocutaneous candiasis. 437

**Transport,**
metabolic parameters of and vacuolar perfusion results in Nitella clavata. 2561
in the Suctorian tentacle, microtubules model for. 3576

**Transport (water),** in soybean, nutrient status and mycorrhizal enhancement of. 6377

**Transport system,** for organic acids in Cylindrotheca fusiformis. 6648

**Transport system (concentrating inducible),** in Tetrahymena pyriformis, characteristics of. 5383

**Transport system (normal and mutant),** of Neurospora crassa, histidine uptake in. 5376

**Transport overshoot,** during biotin uptake by Saccharomyces cerevisiae. 7269

**Trap formation,** in Arthrobotrys dactyloides, induction of. 7120

**Trauma (mechanical),** role of in dermatophyte infection. 2896

**Traveler,** giardiasis causing diarrhoea in. 1699

**Tray-rack (practical),** for culture dish incubation. 5547

**Treatment plant location,** influence of water quality on. 7032

**Trees,**
effect of biochemical weathering on calcium accumulation in. 3816
photography as aid in estimating annosus root rot causing mortality in. 2118

**Trees (diseased and healthy),** statistical analysis of the ordering of in a transect. 4923

**Trees (forest),** resistance in to parasitism by Clitocybe mellea. 3757

**Trees (landscape),** diseases of in Virginia. 5136

**Trehalase,**
in mutants of Neurospora crassa, lack of. 386
in Neurospora crassa, genetic control of multiple forms of. 2009
properties of an inhibitor of in trehalaseless mutants of Neurospora. 1979

**Trehalase activity,** in dormant and activated spores of Phycomyces blakesleeanus. 4767

**Trehalose,**
in baker's yeast, function of. 1457
in Dictyostelium discoideum, synthesis of during differentiation. 1452, 2008
in Euglena gracilis, metabolism of. 6041
as metabolic product of D-xylose in Rhodotorula gracilis. 7289
in yeast during starvation and during ethanol formation under the influence of propanol or ethanol, decrease of. 6045
in yeast, gas chromatographic determination of. 5395

**Trehalose (2-deoxy-$\alpha$,$\alpha'$),** in baker's yeast, formation of. 4801

**Trehalose synthesis,** during differentiation in Dictyostelium discoideum. 5324

**Trematodes (strigeoid),** a microsporidan hyperparasite of. 1896

**Tremortins,** quantitative determination of in agricultural commodities. 846

**Triacetic acid lactone,** synthesis of in Penicillium patulum. 6608

**Trialkyltin,** isolation and general properties of yeast mutants resistant to. 908

**Triallate,** initial studies on the microbial breakdown of. 6137

**Triarimol,**
evaluation of for control of stripe smut in Merion Kentucky blue-grass turf. 6942
field evaluation of for control of Sphaerotheca fuliginea on cucumber. 5086
inhibition of ergosterol synthesis in Ustilago maydis by. 4293
suppression of ascospore production by Venturi inaequalis by. 4886

**Triatoma arthurneivai,** mobility of in natural ecotopes in relation to American trypanosomiasis. 7495

**Triatoma dispar,** natural infections of with Trypanosoma cruzi in Panama. 5675

**Triatoma infestans,**
Blastocrithidia triatomae from. 50
effect of temperature on evolution of Trypanosoma cruzi in. 1735

**Triatomids,**
  local distribution of. 2198
  local distribution and dispersion of in natural and artificial ecotopes. 2197
**Triatomines,**
  effect of temperature on evolution of Trypanosoma cruzi in. 1735
  transmission of trypanosomiasis in Colombia by. 988
**Triazine**, potentiation against preerythrocytic stages of Plasmodium falciparum. 1046
**Triazine (2,4-dichloro-6-(0-chloroanilino)-S),** evaluation of against Helminthosporium sorokinianum. 2367
**Triazine herbicides**, effect on Erysiphe graminis and Cercosporella herpotrichoides on wheat. 1757
**Triazole**, structural requirements for inhibition of yeast imidazoleglycerol phosphate dehydratase by. 1424
**Tribolium**, Nosema whitei of. 5691, 5692, 5693
**Tribolium castaneum**, parasitized by Nosema whitei, effects of malnutrition on growth and mortality of. 3737
**Tribolium confusum**, survival and reproduction of after exposure to fungus metabolites. 3704
**Tricarboxylic acid cycle**, in Tetrahymena, distribution of carbon label in. 247
**Tricarboxylic acid cycle enzymes**, of Candida guilliermondii on hydrocarbon containing medium, activity of. 759
**Trichinosis**, nitroblue tetrazolium test in. 366
**1,1,1-Trichloro-3-nitro-2-propanol**, systemic activity against smut fungi in grasses. 1125
**Trichodermin**, from Trichoderma. 263
**Trichomonacidal agent**, use of in vaginal diseases. 4449
**Trichomoniasis**. 2906
  effect of hormonal changes of vaginal environment in the treatment of vaginitis due to. 4471
  examination of the fundus uteri in. 4470
  in the female, treatment with metronidazole. 452
  in marital partners, effectiveness and side effects of metronidazole treatment for. 2253
  metronidazole in simplified dosage in. 7560
  in the Ostrava district of Czechoslovakia. 1702
  of pigeons. 4508
  in premature births. 1704
**Trichomoniasis (cervico-vaginal),** as sterility factor. 7561
**Trichomoniasis (genitourinary tract),** 1705
  in males, diagnosis and treatment of. 5028
**Trichomoniasis (human),** epidemiology of. 5588
**Trichomoniasis (vaginal),**
  clinical evaluation of active compounds against. 1703
  clinical study of. 4469
  diagnostic methods and results of investigations in. 6834
  methylpartricin in the treatment of. 7529
  metronidazole treatment of. 1035
  tinidazol in the treatment of. 2252
  treatment with one dose of metronidazole. 2908
**Trichomycin**, sensitivity of Blastocladiella emersonii spores to. 906
**Trichophytosis**, local use of thiabendazole for the treatment of. 2242
**Trichophytosis (experimental mouse),** effect of oral application of Amphotericin B on. 1065
**Trichoplusia ni**, parasites of in India. 5044
**Trichothecin,**
  biosynthesis of. 6067
  gas-liquid chromatography of. 844
**Trichothecin group**, gas-liquid chromatography of mycotoxins of. 844
**Trichotoxin A**, from Trichoderma viride. 3392
**Trifluralin,**
  effect on growth and sclerotia production of Sclerotium rolfsii. 915
  effect on rumen bacteria and protozoa. 2737
**Triglyceride,**
  breakdown of in Microsporum. 6751
  of yeasts grown on glucose or n-alkanes, fatty acid distribution in. 6628
**Trigonella**, after infection with Peronospora trifoliorum, contribution to physiology of. 1094
**Trimethoprim,**
  effect of on Plasmodium gallinaceum oocysts. 2970
  treatment of falciparum malaria with. 2264
**Trimethoprim/sulphamethoxazole compound,**
  in bronchopulmonary infections. 3634
  comparison of with tetracycline in exacerbations of chronic bronchitis. 7537
**Trimethoprim + sulphamethopyrazine**, single dose treatment of Plasmodium falciparum malaria in Cameroon with. 2260
**Trimethoprim variations**, synthesis of. 3515
**Trimethylsilyl ethers**, gas-liquid chromatography of. 844
**2,4,6-Trinitrobenzenesulphonic acid**, modification of yeast pyruvate kinase by. 5983
**Triparanol-treatment**, of Chlorella emersonii, isolation of new sterols. 820
**Triphenyltetrazolium chloride**, quantitative selection of respiratory deficient mutants in yeast by. 4853
**Triphosphoinositide**, in Saccharomyces cerevisiae, metabolism of. 2699
**Tris buffer**, conformational changes of Neurospora pyruvate kinase induced by. 5975
**Trisporic acids,**
  abscisic acid-like activity of. 2035
  from Blakeslea trispora, effect of some inhibitors of carotene synthesis on formation of. 5467
  effect of on the production of ubiquinone Q9 and riboflavin by Blakeslea trispora. 6662
**Trisporic acid production**, by Blakeslea trispora. 3395

**Triterpene glycosides**,
  from Caulophyllum robustum, antimicrobial activity of. 7407
  inhibition of fungal growth and metabolism by. 3455
**Triterpenoid acid (tetracyclic)**, constituent of Heterobasidion tasmanica. 285
**Triticum aestivum leaves**, nucleic acid-splitting enzymes in following infection with Puccinia graminis tritici. 6347
**Triticum timopheevi**, as source of resistance to wheat stem rust. 3006
**Tritium**, discrimination against by fully deuterated algae. 7430
**Triton-extracted models**, of Paramecium, reactivation of. 4864
**Triuret crystals**, of Amoeba proteus, freeze-fracture study of. 2797
**Trogoderma**, protozoan parasites of in California. 2314
**Trophic states (different)**, comparisons of 2 Antarctic lakes with. 5280
**Trophic structure**, and feeding rates of forest soil invertebrate populations. 3097
**Trophogenic layer**, production and destruction in. 3249
**Trophont**, of Pyxinia crystalligera, in vitro maintenance of. 6163
**Trophozoite passers (asymptomatic)**, experimental studies on Entamoeba histolytica with reference to. 989
**Trophozoites**,
  of Entamoeba, use of as antigen in fluorescent antibody tests. 3614
  of Entamoeba coli, electron microscopic study of. 7087
  of Entamoeba dysenteriae trophozoites, effect of low temperature on infectivity of. 3475
  of Entamoeba histolytica, changes brought about by alterations in the medium in. 3476
  of Entamoeba histolytica, morphological aspects in the biology of. 3185
  of Entamoeba histolytica, morphological changes in under the effects of antiamebic drugs. 3510
  of Entamoeba histolytica, ultrastructure of. 3928
  in peritoneal fluid, fatal postpartum amoebic colitis with. 4474
**Trophozoites (hematophagous)**, of Entamoeba histolytica, study of in tissues. 3666
**Tropical algae**, Leucothrix mucor infestation of. 4014
**Tropical Atlantic Ocean**, algae from. 3259
**Tropical fungal diseases**, progress in the serological diagnosis of. 941
**Tropical oceanic community**, relative importance of nannoplankton and netplankton as primary producers in. 2536
**Tropical parasitology**, problems in temperate areas. 414
**Tropics**, algal nitrogen fixation in. 5365
**Tropidurus torquatus**, infected with Plasmodium tropiduri, asexual and sexual stages of malaria parasite in thrombocytes of. 490
**Tropolones (fungal)**, biosynthesis of. 5445
**Tropomyosin-like substances (native)**, from myxomycete plasmodium, extraction of. 4133
**Trout population (native)**, in Michigan, spread of Myxosoma cerebralis into. 5689
**Trypanocidal drugs**,
  therapeutic effect on rodent malaria. 1087
  ultrastructural alterations of Trypanosoma cruz kinetoplast induced by interaction of with kinetoplast DNA. 1557
  ultrastructural study of effects produced on trypanosomes by. 1556
**Trypanosomiasis**,
  amastigote phase of trypanosome causing. 3657
  application of xenodiagnosis for the demonstration of in immunologically suspect individuals. 6801
  in an Ayrshire cow. 1737
  of cattle, effect of a block-treatment regimen using ethidium on. 7594
  in the Cervidae. 3713
  in the chimpanzee. 2954
  in Colombia, distribution of triatomine-transmitted. 988
  denervation of the heart in. 4467
  effect on development of experimental allergic neuritis in rabbits. 471
  epidemiology of. 412
  evaluation of the haematocrit centrifuge and other techniques for the field diagnosis of. 1579
  febrile response to treatment in. 5029
  and haemoglobulins S and C. 2866
  of horses, clinicopathological study on. 5673
  immunodiagnosis of. 365
  immunological studies on. 5601
  immunosuppression during. 5604
  incidence of in wild carnivores of the Serengeti National Park. 4408
  in the mouse embryo. 2285
  in a mullet. 1739
  in Musoma, Tanzania. 1645, 1646, 1647, 1732, 1738
  non-cyclical transmission in Uganda. 413
  in pregnancy, treatment of. 1037
  of rat, influence of type of diet on. 7592
  relationship between haemoglobin S and C and IgM serum in areas endemic for. 2214
  review. 1706
  in South-West Ethiopia. 2851
  study of passive immunity in. 2864
  in wild life in Darjeeling. 6878
**Trypanosomiasis (African)**,
  in Canada. 5639
  the heart in. 2909
  para-articular ossification as complication of 1707

- **Trypanosomiasis (American)**, ecological aspects of. 7495
- **Trypanosomiasis (bovine)**,
  - in Africa, studies of the applicability of serological methods of a differential diagnosis of. 5600
  - immunological aspects of. 1004
  - isolated outbreak of near the Victoria Falls, Rhodesia. 3711
- **Trypanosomiasis (congenital African)**, case of. 4468
- **Trypanosomiasis (experimental)**,
  - effect of cyclophosphamide on IgG levels and parasite number in. 2287
  - in guinea-pigs, quantitation of serum IgM fluorescent antibodies in. 2862
  - of Mastomys natalensis. 2286
  - in mice, influence of ambient temperature on course of. 5051
  - in the Zebu cattle, comparative investigations on. 4513
- **Trypanosomiasis (experimental and human American)**, light and electron microscope studies of the autonomic nervous system in. 2255
- **Trypanosomiasis (Gambian)**,
  - diagnosis of in man. 2795
  - febrile response to treatment in. 5029
- **Trypanosomiasis (Rhodesian)**, clinical and therapeutic aspects in. 2910
- **Trypanosomiasis (South American)**, ecological aspects of. 2197, 2198
- **Trypsinogen**, activity assay for Endothia parasitica protease by the use of as substrate. 5973
- **Tryptanthrin**, from Candida lipolytica, production of. 841
- **Tryptophan**,
  - Aspergillus nidulans mutants lacking, genetic investigation of. 400
  - biosynthetic route to ergot alkaloids from in fungi. 7302
  - synthesis by Taphrina deformans of $\beta$-indolylacetic and lactic acids from. 4193
- **Tryptophan content**, of insoluble proteins from wild-type and mi-1 Neurospora crassa, comparison of. 4135
- **Tryptophan derivative**, of Candida lipolytica, production of. 841
- **L-Tryptophan and dimethylallylpyrophosphate**, in Claviceps species, formation of L-demethylallyl-tryptophan. 161
- **DL-Tryptophan + L-glutamic + DL-aspartic + L-leucine acids**, utilization by storage rot fungi. 1597
- **Tryptophan-nicotinic acid pathway**, in Neurospora crassa, end-product regulation . 197
- **Tryptophan-nicotinic acid pathway (anthranilic acid-)**, in Rhodotorula glutinis, demonstration and characterization of metabolites of. 7275, 7276
- **Tryptophan phases (cell-pool)**, in ergot alkaloid fermentation. 1479
- **Tryptophan-synthase-inactivating enzymes**, from yeast, purification and properties of. 5990
- **Tryptophan synthetase**, of Candida utilis, effect of cysteine on activity of. 760
- **Tryptophan-tRNA**, from brewers' yeast, nucleotide sequence of. 708
- **Tsetse fly (wild)**, transmission of salivarian trypanosomes isolated from. 5055
- **Tuamotu and Marquis islands**, some occurrences of phytoplankton between. 1940
- **Tuatara**, microsporidiosis in. 3744
- **Tuber defects**, induced by Verticillium, influence of chemical seed and soil treatment on. 6365
- **Tuber yield**,
  - method for estimating loss in caused by late blight of potato. 3749
  - quantitative relationship between late blight of potato and loss in. 4538
- **Tubercle bacillus digestion**, effect of and decontamination procedures of fungi causing pulmonary diseases. 5633
- **Tuberculosis**,
  - incidence of toxoplasma antibodies in. 4991
  - isolation of pathogenic fungi from sodium hydroxide-processed sputum specimens. 325
- **Tuberculosis (active)**, rare form of intra-cavity aspergillus associated with. 7526
- **Tuberculosis (pulmonary)**, frequency of digestive moniliasis in. 3641
- **Tuberculosis (pyothorax)**. fistular into the bronchi, medical treatment of followed by rapid invasive aspergillosis. 3635
- **Tubule**, of Tetrahymena pyriformis, formation of. 1260
- **Tucuras**, Entomophthora grylli on. 3688
- **Tulip**,
  - attacked by Botrytis, role of antimicrobial substances in. 6355
  - bud necrosis of, symptoms and influence of storage conditions on. 542
  - host-parasite-relation of and Botrytis. 4567
  - influence of ethylene and mites on bud necrosis of. 6960
- **Tuliposides**,
  - role of in tulips attacked by Botrytis spp. 6355
  - stability and activity of in relation to Botrytis. 4567
- **Tumorigenesis (mammary)**, inhibition of by ergot alkaloids and promotion of by pituitary isografts in adrenoovariectomized mice. 4820
- **Tumour**, in Porphyra, electron microscopic observations of. 6682
- **Tumour (Ehrlich ascites)**,
  - antitumour activity of total extracts of Amanita phalloides on. 5653
  - in mice, effect of complex yeast preparation as food supplement on the growth of. 6406
- **Tumour (murine)**, resistance to conferred by chronic infection with Toxoplasma gondii and

- **Tumour (murine), contd.**
  - Besnoitia jellisoni. 3622
- **Tumour induction**, by Cryptococcus neoformans. 6864
- **Tumoural forms (colic pseudo)**, of amoebiasis. 3674
- **Tunisia (South)**, biological study of Chott El Djerid in. 6383
- **Turbidimetry**, use of in studies of population dynamics of phytoplankton populations. 7142
- **Turbidity (culture)**, as measure of mould growth. 5253
- **Turbidimetry**, determination of action of lytic enzymes on yeast by. 2730
- **Turbidity**, control of by flocculation and filtration. 1816
- **Turbidometric continuous culture**, of phytoplankton. 4314
- **Turbulence**, local phytoplankton abundance and. 5281
- **Turf**, isolation of Sclerotinia homoeocarpa tolerant to Dyrene from. 2098
- **Turgor pressure**, of fungal mycelia. 552
- **Turgor pressure (cell)**,
  - interrelations of with gas-vacuolation and buoyancy in Anabaena flos-aquae. 6657
  - and selective ion transport of Chaetomorpha linum. 5172
- **Turkey**,
  - brain aspergillosis in. 464
  - effect of cupric sulphate on prophylactic efficacy of 2-acetylamino-5-nitrothiazole, nifursol and ipronidazole against histomoniasis in. 4504
  - effect of transfer to of Heterakis gallinarum larvae on retention and development of heterakids and liberation of Histomonas and Parahistomonas. 6302
  - marine algae of coast of. 3256
- **Turkey (wild)**, of eastern West Virginia, blood parasites in. 7603
- **Turkey kidney cells**, comparative development of Eimeria tenella in primary cultures of. 3985
- **Turkey poults**, effects on of rations containing corn invaded by Fusarium tricinctum. 3832
- **Turkeycock**, effect of Fusarium graminearum on semen production in. 467
- **Turkmenia (North-West)**, first data on the algoflora of waters in. 7059
- **Turkmenian SSR Academy of Sciences**, collection of cultures of nitrogen-fixing blue-green algae in the Botanical Institute of. 7038
- **Turtle**, diagnosis and treatment of disease in. 5666
- **Tween**, adaptive biosynthesis of thiazole and bypassing of the thiazole requirement in Exobasidium by. 6037
- **Tween 80**, effect of as sole source of carbon on growth of Neurospora crassa. 1589
- **Tween-ether preparation**, of Toxoplasma gondii antigen for the complement fixation test. 6241
- **Tyndallization (reciprocal)**, technique for wood samples and its uses. 361
- **Typha latifolia**, mycoflora associated with. 1327
- **Tyrosinase**, occurrence of in Agaricales and comparative study of laccase from Russula. 7236
- **Tyrosinase isozymes**, spectrophotometric determination of monophenolase activity of. 712
- **Tyrosine catabolism**, in Tetrahymena pyriformis, regulation of the enzymes of. 5362
- **Tyrosine transaminase**, in Dictyostelium discoideum amino acid metabolism. 156

# U

- **Ubiquinone**,
  - from Blakeslea trispora, production of. 3409
  - in fungi, intracellular distribution of quinone precursors of. 2698
  - as the major metabolites of mevalonate in Phytophthora cactorum. 6051
- **Ubiquinone Q9**, effect of trisporic acids on the production of by Blakeslea trispora. 6662
- **Uganda**,
  - non-cyclical transmission of trypanosomiasis in. 413
  - progression and remission in the nephrotic syndrome associated with quartan malaria in. 7571
  - Verticillium wilt of cacao in. 3792
- **UK**, see also individual towns and counties.
  - aggressive Ceratocystis ulmi in. 4544
  - epidemiology of malaria in. 416
  - foliar diseases of spring barley in. 5080
  - human infection with Isospora belli in. 4481
  - incidence of sugar beet seedling disease and effects of seed treatment in. 5119
  - Puccinia striiformis collected in from wheat. 6349
  - review and 3 cases of Histoplasmosis in. 3626
  - Theileria mutants in. 3714
  - Trypanosoma of Pipistrellus pipistrellus in. 1075
- **UK (Hampshire)**, race and pathogenicity of Phytophthora fragariae from red core outbreak in. 5071
- **UK (Ireland)**,
  - analysis of attendance motivation in venereal diseases clinic in Belfast in. 5026
  - seasonal release of spores of Nectria galligena from apple cankers in. 3754
  - succession of phytoplankton in Lake Neagh in. 7167
- **UK (North Shropshire)**, ecology of planktonic blue-green algae in the Meres of. 1291
- **UK (Scotland)**,
  - agarics of St.Kilda off the coast of. 4734

- **UK (Scotland), contd.**
  - Ascomycetes from. 4732
  - Coniothyrium fragariae on strawberry in. 5101
  - Coprophilic ascomycota from. 1322
  - fungi on Bryophytes of. 6538
  - direct observations on the sublittoral marine algae of. 7166
  - suspended organic matter in fast-flowing streams in. 1301
- **UK (south west England),** Chrysochromulina parkeae from. 5220
- **UK (Tay region),** mercury in marine organisms of. 7022
- **UK (Wales),**
  - lichens of the Dale Peninsula in. 1338
  - multivariate approaches to the ecology of algae on terrestrial rock surfaces in. 1939
  - surveys of foliar diseases of spring barley in. 5080
- **UK (west coast of England),** lower fungi from bottom probes of brackish water and sea water off. 4040
- **UK (west of England),** history of dermatology in. 4462
- **Ukraine,**
  - protozoological investigations in. 6856
  - study of the pathogenic mycoflora of the Tabanidae in. 3698
- **Ukraine (south),** survival of oocysts of rabbit coccidia under conditions of. 5153
- **Ulcer,** of the genitals, diagnosis of. 3639
- **Ulcer (amoebic),** of vagina and cervix. 4473
- **Ulcer (fungal corneal),** therapeutic keratoplasty in. 3629
- **Ulmus (diploid),** relative resistance of to Ceratocystis ulmi. 2324
- **Ulmus americana,** effects of Ceratocystis ulmi on the phloem and vascular cambium of. 6328
- **Ultrasonic,** see Sound (ultra).
- **Uracil,** degradation of by synchronous cultures of Chlorella fusca. 6031
- **Unicells,** in soil extract in Scenedesmus 170. 4241
- **Uraemic syndrome (haemolytic),** urinary candidiasis following. 1019
- **Uranium acetate,** effect on conidiophores and mycelium of some Hyphomycetes. 2069
- **Uranyl ions,** effect on steady-state distribution of monosaccharides in baker's yeast. 1520
- **Urea,**
  - degradation of by microorganisms in the spermosphere and rhizosphere. 2386
  - distribution of in coastal and oceanic waters. 3569
  - effect on soil microfungi. 3093
  - experience with in invert sugar for treatment of cerebral malaria. 2271
  - growth and composition of phytoplankton in shipboard cultures supplied with. 3531
  - properties of alkaline protease from Acremonium kiliense in. 6001
  - in Saccharomyces cerevisiae, regulation of arginase levels by. 1982
  - utilization of by some marine phytoplankton. 7462
  - utilization and metabolism of during spore germination by Geotrichum candidum. 3574
  - utilization of by urease-free Torulopsis utilis. 7473
- **Urea (hydroxy),** effect on development of macronuclear anlagen in the exconjugants of Blepharisma seshachari. 3477
- **Urea amidolyase:ATP,** in Saccharomyces cerevisiae, urea carboxylase and allophanate hydrolase as components of. 4777
- **Urea cream,** in the treatment of skin diseases. 1697
- **Urea decomposition,** by marine diatom, comparison of laboratory and in situ measurements of. 5366
- **Urea herbicides,**
  - depression of carbohydrate in marine algae by. 1546
  - effect on Erysiphe graminis and Cercosporella herpotrichoides on wheat. 1757
- **Urease deficiency,**
  - in Neurospora crassa, genetic analysis of a suppressor of. 2155
  - in Neurospora crassa, genetic and physiological characteristics of. 966
- **Urease-free Torulopsis utilis,** utilization of urea by. 7473
- **Uredospore,**
  - axenic culture of Puccinia graminis f.sp. tritici from. 939
  - of cereal rust, gradients in horizontal dispersal of. 3972
  - effect of nonyl derivatives and related compounds on germination of. 1523
  - of flax rust, rRNA synthesis and ribosome formation during germination of. 4076
  - in Melampsora and Puccinia, release of. 1920
  - of Puccinia graminis var. tritici, effect of pretreatment with stimulator and water vapors on subsequent germination and infectivity of. 4253
  - of Puccinia graminis f.sp. tritici, viability of after storage in liquid nitrogen. 2726
  - of rust, identification of germination self-inhibitor from. 870
  - of stem rust, properties of germination inhibitors from. 2677
  - of stem rust of wheat in the pustule, stimulation of germination of by n-nonanal and related compounds. 4254
  - of Uromyces dianthi, surface structure of. 3222
  - of Uromyces fabae, self inhibition of. 3422
  - of Uromyces phaseoli, identification and localisation of phospholipids in. 2674
  - of Uromyces phaseoli, metabolism during germination of phospholipids in. 2675

**Uredospore, contd.**
  of Uromyces phaseoli, sterols of. 5405
  of wheat rust, investigations on the chemical composition of spore and germ tube walls of. 5304
  of wheat stem rust, sterols of non-germinated and germinating. 4557
**Uredospore (germinating)**, of Puccinia graminis var. tritici, investigation of glucose metabolism in. 4361
**Uredospore germ-tubes**, of Puccinia graminis tritici, behaviour of in relation to fine structure wheat leaf surfaces. 3005
**Uredospore movement**, and observations on the epidemiology of wheat rusts in northeastern Australia. 6345
**Uredospore ornamentation**, in Melampsora lini, ultrastructure and development of. 3160
**Uredospore release**, in Melampsora and Puccinia pelargoniizonalis. 2498
**Uredospore wall proteins**, of wheat stem rust, localisation and enzymatic activities of. 2651
**Uredosporeling**, of wheat stem rust, folate and polyamine content of undifferentiated and differentiated. 203
**Ureidosuccinic acid**, uptake and regulation in yeast. 2650
**Urethral biocenosis**, ecological relations of the flagellate Trichomonas vaginalis in. 2552, 2553
**Urethritis**,
  in Ibadan. epidemiology of. 6220, 6779
  Trichomonas vaginalis in. 677
**Urethritis (gonococcal and nongonococcal microbial)**, rifampicin in the treatment of. 7577
**Urethritis (non-gonococcal)**,
  association of threads in the urine with. 2907
  oxytetracycline in treatment of. 434
  therapy of with tetracycline. 2905
**Urfttal**, contribution to the xerothermic moss and lichen vegetation and flora in. 1339
**Uricase**, in Polytomella caeca, localization of. 3308
**Uridine**, incorporation in chloroplast rRNA of Chlorella. 2565
**Uridine ($^{14}$C-)**, effect of antimalarial drugs on uptake and incorporation of by Tetrahymena pyriformis. 3519
**Uridine (5,6-dihydro)**, in Saccharomyces cerevisiae fluorouracil-containing tRNAs, reduced levels of. 707
**Uridine (tritiated)**, in Saccharomyces, electron microscopic autoradiography of. 3898
**Uridine coenzymes**, fermentation production and metabolism of. 2633, 2634
**Uridine-cytidine kinase**, in Tetrahymena pyriformis, role of in regulation of pyrimidine ribonucleotide synthesis in. 786
**Uridine incorporation**, into Chlorella ribosomes, influence of nitrogen deficiency on. 5456
**Uridine loop (dihydro-)**, of yeast phenylalanine tRNA, excision of nucleotides from. 3298
**5'-Uridine monophosphate**, activation of NAD-dependent UDPGal-4-epimerase in Torulopsis candida by. 2633
**Urinary tract**,
  candidiasis of after renal transplantation. 4446
  5-fluorocytosine treatment of Candida infections of. 7535
  serodiagnosis of candidiasis of. 6253
**Urinary tract infection**, in general practice, multicentre survey of. 6217
**Urinary tract infection (Candida albicans)**, in CFW mice, influence of gonadectomy on. 4497
**Urinary tract involvement**, with systemic mycosis. 6260
**Urinary tract pathology**, occurrence of yeast-like fungi in the urine under normal conditions and in. 7186
**Urine**,
  association of threads in with non-gonococcal urethritis and prostatis. 2907
  occurrence of yeast-like fungi in under normal conditions and in various types of urinary tract pathology. 7186
**Urine test**, with Saccharomyces cerevisiae, determination of mutagenic substances by. 2115
**Urogenital trichomoniasis**. 1705
**Urovison density gradient**, separation and charactization of morphological elements of Candida albicans by. 1573
**Urticaria**, and Quincke's oedema due to moulds in the atmosphere. 4404
**USA**, see also America and America (North).
  Asteromyces cruciatus from. 5924
  Coprotus from. 5833
  corn blight infection levels in. 985
  damage caused by Scleroderris in plantations and nurseries in. 6919
  deep Entomophthora phycomycotic infections reported for the first time in. 4993
  dermatology in. 2902
  distribution of hosts of Scleroderris lagerbergii. 6918
  elimination of wheat stem rust in. 2337
  fertilization and chromosomal alternation of generations of Alaria from. 3135
  Gomphus and Gloeocantharellus from. 7072
  Helminthosporium maydis race T epidemic in. 5749
  Heppiaceae in. 4041
  Lycoperdon norvegicum with Boreo-Continental distribution in. 1953
  malaria imported into. 1651
  meiosis in Alaria from. 3134
  Nummularia from. 3272
  nyctotherans from animals in. 4055
  overwintering of Helminthosporium maydis in. 529
  pathogenicity of oat crown rust in. 3004

**USA, contd.**
- population dynamics and biotic controls of soybean looper in. 6872
- races of Puccinia graminis f. spavenae in during 1970. 2339
- reappearance of maize blight in. 1152
- unrecognized source of overwintering wheat stem rust in. 2338

**USA (Alabama),**
- air-borne pollen and fungus spore patterns in Birmingham in. 7715
- overwintering of Helminthosporium maydis in. 2391
- Parmelia permaculata from. 49

**USA (Alaska),**
- Coprinus from. 1232
- physical limnology, chemistry and plant productivity of a Taiga lake in. 7160

**USA (Arizona),**
- Albatrellus in. 2546, 4024
- identification of Phytophthora isolates from. 2455

**USA (Arkansas),** seroepidemiology of amebiasis in. 2852

**USA (Baratana Bay),** annual nannoplankton carbohydrate cycle in. 6043

**USA (California),**
- apricot pathogen associated with Ceanothus limb dieback in. 2325
- benthonic foraminifera of the Ardath Shale and Stadium Conglomerate in. 7191
- Ceramiaceae from. 1211
- changes and additions to articulated coraline flora from. 647
- changes in the intertidal algal flora of since the survey by E. Yale Dawson in Los Angeles in. 3262
- cyclamen wilt in and its control. 7663
- distribution and occurrence of Sclerotium oryzae on rice in. 3061
- freshwater 'red tide' on Clear Lake in. 2524
- importance of nannoplankton and netplankton as primary producers in current system of. 2529
- marine algae from. 560
- marine algae in San Luis Obispo County in. 645
- Nectria fuckeliana on dwarf mistletoe in. 6335
- production of calcium carbonate on the mainland shelf of. 6650
- protozoan parasites of Trogoderma in. 2314
- relation of Verticillium albo-atrum to severity of cotton and olive wilt in. 2381
- snow algae in. 4717

**USA (Carolina),**
- Boletus from. 28, 5205
- colonization and succession of fresh-water protozoans in polyurethane foam suspended in small pond in. 2559
- incidence of Fusarium canker of yellow poplar in. 6961
- marine algae of. 5909
- Mortierella from. 18, 5191
- nonpetrified fossil alga from phosphate mine in. 650
- overwintering of Helminthosporium maydis in. 2395
- phytoplankton production and distribution of nutrients in shallow unstratified estuarine system in. 2534
- postharvest decay of highbush blueberry fruit in. 5793
- seed treatment of barley and oats in. 3016
- subfossil diatoms from. 5267
- thermophilic fungi of forest soils in. 5147
- Vacuolaria virescens in. 3288

**USA (Carolina and Maine),** differences in decay rate following fire between oaks in. 7702

**USA (Colorado),** new algae from. 2513

**USA (Colorado and New Mexico),** coccidia from the tiger salamander in. 6558

**USA (Dakota),** virulence and potential destructiveness of wheat leaf rust in. 3763

**USA (Delaware),** benthic marine algae of. 7172

**USA (Florida),**
- Cristulariella pyramidalis in. 4743
- Eimeria kinsellai from a marsh rice rat of. 59
- flower blast of statice in. 3024
- limnological characteristics of north and central lakes in. 6516
- overwintering of Helminthosporium maydis in. 2392
- oyster parasitism by Labyrinthomyxa marina in. 2274

**USA (Georgia),**
- association of Cylindrocladium with 'short life' of peach trees in. 1134
- distribution and significance of peanut rust in. 6932
- low prevalence of antibody to Trypanosoma cruzi in. 7511
- Mortierella rostafinskii and Mortierella strangulata in. 6537
- Mortierella umbellata from. 6439
- Opalina from. 4692
- overwintering of Helminthosporium maydis in. 2393
- Schellackia and Plasmodium in lizards in. 134

**USA (Great Lakes),** contribution to diatom flora of. 3240

**USA (Illinois),**
- municipal control of Dutch elm disease in cities of. 6905
- parasites and pathogens of the fall webworm in. 6894
- resistance of strawberries to Mycosphaerella fragariae in. 502

**USA (Iowa),**
- diatoms in lacustrine sediments of Pillsbury and Sylvan lake beds in. 4714
- fleshy fungi in. 4026
- Helminthosporium maydis race T in. 3112
- primary productivity in Lake Red Haw in. 4727

**USA (Kansas)**, air spora of 2 contrasting ecological sites in. 5290
**USA (Keystone Reservoir)**, diversity of net zooplankton and physiochemical conditions in. 4060
**USA (Lake Michigan)**, significance to eutrophication of spatial differences in nutrients and diatoms in. 6520
**USA (Lake Minnetonka)**, phytoplankton, photosynthesis and phosphorus in. 6646
**USA (Louisiana)**, Pleistophora chapmani in Culex territans from. 4533
**USA (Maine)**, protein and esterase of Streptomyces from potatoes from. 215
**USA (Manitoba)**, losses from cereal diseases and value of disease resistance in. 3075
**USA (Maryland)**,
  Colletotrichum graminicola on T corn and blends in. 3033
  Sarcocystis in grackles in. 132
**USA (Metolius river)**, benthic algal communities of. 3247
**USA (Michigan)**, spread of Myxosoma cerebralis into native trout populations in. 5689
**USA (Minnesota)**, Dothistroma pini on Pinus nigra in. 3038
**USA (Mississippi)**,
  blast of ryegrass in. 5753
  overwintering and early season development of Helminthosporium maydis in. 2394
  Protozoa and Algae of deltaic soils in. 6394
**USA (Missouri)**,
  loss from Fomes annosus in thinned short-leaf pine plantations in. 3001
  oak bark beetle attacks on oak wilt trees in. 6903
  stilbellaceous fungus from soil in. 1881
**USA (Montana)**, investigations on Septoria nodorum in spring wheat in. 5126
**USA (Nebraska)**, parasites of pheasants in. 7596
**USA (New England)**,
  annotated list of marine fungi from. 1960
  winter fragmentation of Codium fragile in. 6084
**USA (New Hampshire)**, growth and reproduction of natural and harvested populations of Gigartina stellata in. 5914
**USA (New Mexico)**,
  Armillaria root rot in a ponderosa pine plantation in. 2332
  Cercospora leaf spot epidemics on sugar-beets in. 3028
**USA (New York)**,
  distribution of phytoplankton in a polluted saline lake in. 5169
  Gloiosphaera clerciana from. 122
**USA (New York bight)**, acid-iron waste disposal and summer distribution of standing crops in New York bight in. 5802
**USA (northeastern)**, beech bark disease in. 7632
**USA (Ohio)**,
  comparison of isolates causing yellow leaf-blight of corn in. 3077
  new county records for lichens in. 3284
**USA (Oklahoma)**,
  effect of harvesting methods and laboratory drying procedures on fungal populations and aflatoxins in peanuts in. 3111
  factors influencing frequency of bark lichens in. 669
  mycoflora of developing peanut pods in. 1775
  spp diversity of net zooplankton and physiochemical conditions in Keystone Reservoir in. 4060
**USA (Oregon)**,
  distributional patterns in assemblages of attached diatoms from. 2516
  Pithomyces chartarum isolated from seed and fruit in. 1956
  Pyrenochaeta terrestris as a naturally occurring component of the soil in. 5123
**USA (Pacific coast)**,
  Antithamnion and related genera occurring on. 4001
  Iridoea from. 4002
  revision of the Porphyra occurring on. 3886
**USA (Pennsylvania)**, beech bark disease in. 512
**USA (Southeastern)**,
  lignicolous Basidiomycetes of. 3902
  Parmelia pustulifera from. 5849
**USA (Southeastern coast)**, composition of phytoplankton of. 4012
**USA (Tennessee)**,
  Henneguya from the Black Drum in Clear Lake in. 4053
  Vahlkampfia lobospinosa in. 4051
**USA (Texas)**,
  cankers on oaks in. 6949
  Cercospora leaf spot epidemics on sugar-beets in. 3028
  1967 foray in. 1961
  Henneguya from the Black Drum in Clear Lake in. 4053
  Kudoa from the spot in. 6477
  malaria outbreak in. 4486
  Myxomycetes from. 1849
  nitrogen and phosphorus dynamics in impoundments in. 6531
  phytoplankton production in natural and altered areas in West Bay in. 2533
**USA (Utah)**, Gymnoascaceae and keratinophilic fungi from. 6447
**USA (Virginia)**,
  biology of Porterinema fluviatile on the Atlantic coast of. 4721
  blood parasites in wild turkeys of. 7603
  diseases of landscape trees in. 5136
  imported malaria in. 990
**USA (Washington)**,
  Acrasieae in the soils of. 4614
  alpine myxomycetes from. 6436
  Rhizina root rot of Douglas-fir seedlings planted on burned sites in. 6916
**USA (western)**, Phellinus in. 5207

**USA (Wisconsin),** brown spot needle blight of Scotch pine Christmas trees in. 1114
**USA (Wyoming),** Emericellopsis stolkiae from saline soils in. 1858
**USSR,**
  effect of mineral fertilizers on root microflora of maize growing in forest-steppe zone of. 3814
  enteritis secondary to Giardia lamblia in students travelling on tour in. 4463
  infection of peavine with fungal diseases under the Poltava district conditions in. 6353
  leishmaniasis in. 1701
  natural focality of leishmaniasis in. 1640
  soil microflora from east coast rice fields in. 1158
  study of phytoplankton of the upper River Vorskla in. 6530
**USSR (Barents Sea),** primary production and chlorophyll in the near-shore zone of. 7330
**USSR (Belgorodskaja),** algae of 2 intermediate swamps from. 7175
**USSR (Lake Kononjer),** photosynthesizing bacteria of. 5266
**USSR (Leningrad),**
  Cercospora in. 5927
  decomposition of vegetative mass in dry meadows in. 7017, 7018
**USSR (Moscow),** epiphytic lichens in aspen woods in various ages around. 126
**USSR (Transural),** diurnal dynamics of the assimilation of $CO_2$ in certain lichens of the forest-tundra of. 6072
**Uterine infection (intra),** case of with Babesiella berbera. 6883
**Utetheisa pulchella,** infectivity of the microsporidium parasitic on to Spodoptepa exigua. 1752
**UV damage,**
  in Aspergillus nidulans, photoreactivation of. 1628
  to the DNA of Neurospora crassa, repair of. 6120
**UV-induced pyrimidine dimers,** in Saccharomyces cerevisiae, methods for the assay of. 5947
**UV-irradiated Anabaena doliolum,** pigment variations in. 2740
**UV-irradiated plasmodia,** of Physarum polycephalum, acceleration of nuclear growth and advanced initiation of mitosis in. 7382
**UV-irradiated yeast,** excision of Pyrimidine dimers from DNA of. 1965
**UV-irradiation,**
  action spectrum for induction of sporulation in Stemphylium solani with. 1543
  of amoebas, restorative effect of low temperature after. 902
  of Anabaena doliolum, effect of caffeine and light on killing by. 896
  in Aspergillus chevalieri, modifying effect of nitrogen mustard on. 321
  of Chlorella pyrenoidosa by, stimulation of growth by. 314
  Chlorella vulgaris mutants sensitive to and their capacity to photoreactivation. 315
  of Colpoda maupasi resting cysts under low temperatures, drying and freezing rate related to the effect of. 6125
  effect of dehydration on the sensitivity of yeast to. 319
  effect of ergosterol, palmitic acid and related simple lipids on recovery of Candida albicans from. 3488
  effect on foot-fungi in shoes. 4280
  effect on fungi colonizing hardwood chips. 1194
  effect of on Fusarium moniliforme. 3592
  effect on gene-conversion in Neurospora. 4274
  effect on heterocyst production in Anabaena doliolum. 4868
  effect of on the length of the cell cycle and photoreactivation phenomenon in Tetrahymena. 7393
  effect of on production of aflatoxins by Aspergillus flavus. 7386
  genetic implications of in Saccharomyces cerevisiae. 4278
  induction of cytoplasmic petite mutation in Saccharomyces cerevisiae by. 3483
  interaction of with chemical mutagens in Neurospora crassa. 6121
  isolation of an inositol-less mutant of Pyricularia oryzae by. 974
  microbial esterase detection with. 1572
  mutants of yeast defective in mutation induced by. 390
  in Penicillium nigricans, for selection of griseofulvin-producing organism. 900
  production of mutants of Botrytis allii with. 1542
  repair of pyrimidine dimer damage induced in yeast by. 4277
  response of Aspergillus and Penicillium spores to at low temperatures. 3487
  on Saccharomyces, induction of recombination by. 3485
  segregants from Penicillium chrysogenum heterozygous diploid following treatment with. 981
  selection of vinous yeasts by. 1538
  stimulation of thymine uptake in Chlamydomonas following. 2741
**UV-irradiation (short-wave),** effect on resting cysts of Colpoda maupasi at low temperatures. 3492
**UV-irradiation studies,** on Eudorina elegans. 2083
**UV killing,** in Agmenellum quadruplicatum, action spectrum for. 3480
**UV mutability,** in Saccharomyces cerevisiae, pathways of. 2086, 2087
**UV-sensitive mutants,**
  of Anacystis nidulans, isolation and characterization of. 6179

- **UV-sensitive mutants**, contd.
  - of Saccharomyces cerevisiae, genetic and physiological analysis of. 5573
  - of Schizosaccharomyces pombe. 1619
  - in yeast, new type of. 6203
  - of yeast, quantitative analysis of negative liquid holding in. 7384
- **Uveitis (cryptococcal)**, diagnosis of with hypertonic media. 440
- **uvs Mutants**, of Aspergillus nidulans, mutator activity in. 5582

# V

- **Vaccination**, of mice against malaria with heat inactivated parasitized blood. 4982
- **Vaccination (prior)**, effect on experimental blastomycosis. 2209
- **Vaccination programme**, against cutaneous leishmaniasis, follow-up study of. 6793, 6794
- **Vaccine (killed)**,
  - trial of in the prevention of ovine abortion due to toxoplasmosis. 2219
  - use of in immunization against intracellular Toxoplasma gondii. 4433
- **Vaccine (standard bacterial)**, effect of on infection with Toxoplasma gondii in mice. 7518, 7519
- **Vaccine fraction**, of Plasmodium, isolation of by French pressure cell technique. 4983
- **Vacuolar perfusion**, in Nitella clavata. 2561
- **Vacuolation (gas)**, interrelations of with cell turgor pressure and buoyancy in Anabaena flos-aquae. 6657
- **Vacuolation factor (fungal)**, isolation and characterization of. 257
- **Vacuole sap**, of Nitella, effect of light on resting potential and cation activity in. 2060
- **Vacuoles**,
  - of blue-green algae, shock-wave technique for collapse of. 5800
  - of Nitella translucens, fluxes of chloride and bromide in. 550
- **Vacuoles (gas)**,
  - in cell-free system of Microcystis aeruginosa, assembly of. 2560
  - of Microcystis aeruginosa, characterization of protein from. 1428
  - in Microcystis aeruginosa, kinetics of the assembly of. 1198
  - in Microcystis aeruginosa, kinetics of. 6427
  - structure and function of. 5179
- **Vacuum principle**, new type of plankton pump on. 6718
- **Vaga river**, boreal transgression sediments, diatomaceous algae of. 3
- **Vagina**,
  - amoebic ulcer of. 4473
  - Candida infection of during pregnancy and oral contraception. 4399
  - candidosis in, effect of gestogenic contraceptive pills on. 432
  - candidiasis of in relation to pH, microbiology and cytology. 2889
  - clinical assessment of clotrimazole tablets for. 7559
  - clinical evaluation of active compounds against trichomoniasis of. 1703
  - clinical study of trichomoniasis in. 4469
  - frequency of Candidae in. 4956
  - infections of. 3642
  - methylpartricin in the treatment of moniliasis and trichmoniasis of. 7529
  - metronidazole treatment of trichomoniasis of. 1035
  - new drug for treatment of diseases of. 4449
  - tinidazol in the treatment of trichomoniasis of. 2252
  - treatment of Candidosis of with miconazole. 2886
  - treatment of trichomoniasis of with one dose of metronidazole. 2908
  - Trichomoniasis of. 6834
  - trichomoniasis of as sterility factor. 7561
  - yeast growth and contraceptive practices. 408
- **Vagina (human)**, infection due to candida in. 7533
- **Vaginal discharge**, investigation of. 3638
- **Vaginal drug application (intra)**, significance and limit of in chemotherapy. 7558
- **Vaginal epithelium**, influence of hormonal status on the selective receptivity of towards various microbes. 6274
- **Vaginal preparation**, providing prophylaxis against venereal disease, other genital infections and contraception. 6696, 6813
- **Vaginal smears**, squamous cell changes associated with presence of Candida in. 2232
- **Vaginitis**,
  - effects of hormonal changes of vaginal environment in the treatment of. 4471
  - pimaricine in the management of. 2254
- **Vaginitis (Candidal)**,
  - modern aspects of laboratory diagnosis of. 4918
  - oxytetracycline-nystatin in the prevention of. 4450
- **Vaginitis (chronic candidal)**, 1677
- **Vaginitis (trichomonal)**,
  - nitrimidazine compared with metronidazole in the treatment of. 5025
  - treatment of with single oral dose of metronidazole. 5024
- **Valine**, inhibition of diacetyl synthesis by and the roles of $\alpha$-ketoisovaleric acid in the synthesis of diacetyl by Saccharomyces cerevisiae. 6651
- **Valine (phenoxyacetylthioglycyl-(+)-)**, from

**aline (phenoxyacetylthioglycyl-(+)-), contd.**
  anhydropenicillin V. 4827
**aline-isoleucine pathway**, in Saccharomyces cerevisiae, involvement of threonine deaminase in multivalent repression of. 740
**alle**, spot disease of soyabeans in. 4598
**allisneria spiralis**, carpophore-inducing factor from seedlings on. 118
**alsarin**, of Valsaria rubricosa. 6076
**alve (inner)**, of Meridion circulare, unequal division in the formation of. 6484
**alve (mitral)**, urgent open-heart surgery for endocarditis of. 5004
**alve infection (tricuspid and aortic)**, with Candida albicans in rabbits. 6863
**anadium**, requirements of dense cultures of microalgae of. 6168
**anadium compound**, in Amanita muscaria, isolation of. 4823
**ancomycin**, penicillin resistant staphylococcal septicaemia successfully treated with. 7536
**aranus monitor**, Eimeria variana from. 5936
**ariability**, of Candida. 3976
**ariants**, of Trichophyton violaceum, production of. 2790
**arved deposits (modern)**, importance of diatoms in. 7145
**ascular browning**, of tomato isolines infected with fusarium wilt, histochemistry of. 7664
**ascular coagulation (intra)**, in falciparum malaria. 2261
**ascular system**, of walnut, comparison of biological and chemical agents in the treatment of parasites of. 3000
**ascular water flow resistance**, correlation of isolability of the oak wilt pathogen with leaf wilt and. 1102
**ascular wilting**, induced by Verticillium alboatrum, mechanism of. 3065
**ector phase**, of snake haemogregarines in mosquito cell lines, in vitro culture of. 5552
**egetables**,
  diseases of in organic soils of Quebec, relation to climate. 519
  moulds producing toxins in. 1191
**egetables (solanaceous)**, effect of dinitroanilines on. 6700
**egetational zones**, ecosystem study of tropical pond in relation to primary production of. 2535
**egetative cell**, in Saccharomyces cerevisiae, control of recombination ability of. 5574
**egetative cell diminution**, of Coscinodiscus asteromphalus, surface dependent differentiation during. 1262
**egetative mass**, in dry meadows in Leningrad, decomposition of. 7017, 7018
**eil**, of Agrocybe aegerita. 1230
**ellus**, Nannizzia incurvata infection of. 2224
**enereal disease clinic (Belfast)**, analysis of attendance motivation in. 5026
**Venereal diseases**,
  advances in the treatment of. 2249
  development of vaginal preparation providing prophylaxis against and contraception. 6696
  prophylaxis of. 4961
  in prostitutes, studies on. 5027
  report for 1969. 2850
  studies on the development of a vaginal preparation providing prophylaxis against and contraception. 6813
  work of the World Health Organisation in. 2848
  world-wide view of. 7494
  in the young. 4969
**Venerology**, in publications in 1970, therapeutic aspects of. 2259
**Venezuela**,
  Amphiroa currae from. 648
  marine algal flora of. 5913
  specific sensitivity in residents of to paracoccidiodomycosis. 1667
  Willeelia ordinata from. 7153
**Ventilation (hospital)**, mechanical control of in relation to Aspergillus infections. 3596
**Vermiculine**, produced by Penicillium vermiculatum. 7317
**Verongia**, electron microscope study of the association of with a chroococcale. 3994
**Vertebral artery**, mycotic aneurysm of. 1031
**Vertebrates**, spread and maintenance of infections in. 4405
**Vesicles**, in Poria monticola. 3165
**Vesicles (apical)**, in growing bud cells of heterobasidiomycetous yeasts. 3177
**Vesicles (cytoplasmic)**, in germinating spores of Gilbertella persicaria. 92
**Vesicles (gas)**, from blue-green alga, study of strength and stability of. 1824
**Vesicles (yeast membrane)**, isolation and general characteristics of. 5836
**Viability**,
  of Eimeria, observations on in the chorioallantois of chick embryos incubated at different temperatures. 5485
  of Macrophomina phaseoli, effect of temperature on. 307
  of Pseudoperonospora cubensis sporangia. 76
**Vibrational levels**, of diatoms split from 4-atomic complex, analytical study on statistical theory including angular momentum conservation for population distributions among. 925
**Vicia faba minor**, useful mutations induced with $\gamma$-rays in. 1761
**Vierwaldstattersee**, nitrogen cycling and primary production in. 1316
**Vietnam**, mycotoxin contamination of rice from. 538
**Vigna sinensis**, in Nigeria, stem anthracnose of. 2354

**Vinca minor**,
  control of stem blight of. 5120
  epidemiology of stem blight of incited by Phoma exigus var. exigua. 1111
**Vine**,
  biology of Botrytis cinerea and the development of grey mould of. 7649
  black spot disease of. 3788
  cold resistance and downy mildew resistance in hybrids of. 493
  effects of fertilization of on the development of Botrytis cinerea. 7651
  excoriosis of and its treatment. 6975
  physiological condition of in the development of Botrytis cinerea. 7650
  in Tamil Nadu, Macrophomina stem rot of. 7669
**Vine (grape)**, endotrophic mycorrhiza and nutrition of. 2401
**Vine burning (pre-harvest)**, effect of and annual soil fumigation on Verticillium wilt of potato. 7675
**Vineyards**, replanting of and relation to vesicular-arbuscular mycorrhiza. 4615
**Viniculture**, experience with Cercobin in Botrytis treatment in. 6411
**Vinous yeast**, selection of with use of mutagens. 2173
**Viridin**, effect on Sclerotium cepivorum causing white rot of onion. 1552
**Viridiol**, from Trichoderma viride, oxygen requirements and effect of barbiturate. 264
**Viriditoxin**, from Aspergillus viridi-mutans, structure of. 4183
**Viridominic acids**, isolation and biological activities of. 4191
**Viridominic acids A and B**, from Cladosporium, structure of. 7310
**Viridominic acid C**, structure of. 3377
**Virulence**,
  of Aspergillus nidulans for mice, effect of specific genotypic alterations on. 1629
  of Blastomyces dermatitidis from mice, cell wall composition of. 4751
  of Ceratocystis stenoceras, comparison with Sporothrix schenckii. 1221
  of Colletotrichum lagenarium, correlation between and its ability to degrade polyglucosides in the cell walls of sensitive host. 5100
  of Helminthosporium maydis isolates, association with mating types. 2365
  and potential destructiveness of wheat leaf rust in North Dakota. 3763
  of Rhizoctonia solani, influence of exogenous nutrition on. 4364
  transfer of between Trichomonas gallinae via DNA and RNA. 2745
  of Trypanosoma evansi from a Capybara. 4509
**Virus**,
  Aphanizomenon flos-aquae infected with. 6373
  associated with plasmodial development in Anopheles stephensi. 484
  effects of simultaneous microsporidian infections and on larvae of Hyphantria cunea. 7614
  of fungi. 3797, 7080
  from Naegleria gruberi. 2384
  from Penicillium. 6375
  from Penicillium stoloniferum, RNA polymerase activity associated with. 1789
  protein changes in haemolymph of Galleria mellonella larvae infected with. 4519
**Virus (blue-green algal)**, distribution in various types of natural waters. 1785
**Virus (duck infectious anaemia)**, association of with Plasmodium lophurae. 5142
**Virus (double stranded RNA)**,
  from Aspergillus niger and Penicillium stoloniferum, electron microscopy of Saccharomyces cerevisiae cells infected with. 3796
  mating pairs of Saccharomyces cerevisiae infected with from Aspergillus niger. 3795
**Virus (false leafroll)**, of pea, transmission experiments with. 4542
**Virus (influenza)**, antibody response to. 6238
**Virus (mushroom)**,
  from Agaricus fruiting bodies and basidiospores intracellular appearance of. 3079
  methyl bromide fumigation versus other ways to prevent spread of. 1156
**Virus (oncogenic)**, enhancement and prolongation o Babesia microti infections in mice infected with. 6882
**Virus (phyco)**, from Anacystis nidulans and Synechococcus cedrorum, isolation and character isation of. 3078
**Virus (potato X and Y)**, interaction with Alternaria solani. 3770
**Virus (rose wilt)**, comparison of symptons of with Verticillium wilt of roses. 3068
**Virus (Semliki Forest)**, fungal filtrate with pronounced inhibitory action against in mice. 4180
**Virus (sugarcane in mosaic str** H), interaction with Pythium graminocola and effect on growth of sugarcane. 1101
**Virus (SV40)**, formation of anucleate and multinucleate cells by cytochalasin B in WI-38 cells transformed by. 7315
**Virus (tobacco mosaic)**,
  binding of histidine to RNA of. 6611
  infection of Pythium sylvaticum in vitro with. 1787
  rhizosphere microflora of Capsium annuum infected with. 6326
**Virus (tobacco necrosis)**, Phaseolin accumulation in bean in response to. 2346
**Virus complex**, of Agaricus bisporus carpophores, ultramicroscopic study of. 6374
**Virus inducer of interferon**, protection of mouse against experimental Plasmodium berghei

**Virus inducer of interferon, contd.**
  infection with. 2304, 3620
**Virus infection,**
  effect of on the rhizosphere mycoflora of papaya. 6391
  in Oedogonium. 5138
  in Trichomycetes. 1786
**Virus infection (Herpes),** cell-mediated immunity in. 3611
**Virus inhibiting polysaccharide,** of Phytophthora infestans, characterization of. 795
**Virus particles,**
  in the amoeboflagellate Naegleria gruberi, formation of bodies associated with. 1791
  in Aspergillus foetidus. 3080
  in Cephalosporium acremonium. 1790
  in Chorda tomentosa. 5139
  from Mycogone perniciosa magnus. 5140
  in Penicillium chrysogenum. 5141
  in Penicillium chrysogenum, thermal denaturation in acidic solutions of double-helical RNA from. 1788
  in Piricularia oryzae. 3081
**Virus particles (herpes-type),** associated with a fungus. 7680
**Viscera,**
  cryptococcosis of. 4452
  leishmaniasis of. 5023
  leishmaniasis of in London. 2251
**Visceral lesion (generalized),** in guinea pigs, amoebic cellulocutaneous invasion by Naegleria aerobia with after subcutaneous inoculations. 5681
**Visceral phase (occult),** of mammalian trypanosomes. 3980
**Vitaflo DB,** control of corn blight by. 1154
**Vital capacity,** in acute Plasmodium falciparum malaria. 5032
**Vitamin A,** disturbed intestinal absorption of in Eimeria acervulina infection in the domestic fowl. 3726
**Vitamin $B_2$, $B_6$, and PP,** from Blakeslea trispora, production of. 3409
**Vitamin $B_6$ antagonist and synergist,** 5,6-dichloro-2-hydroxymethyl-benzimidazole as. 7400
**Vitamin $B_{12}$,**
  effect of common salts on Euglena gracilis bioassay of. 4847
  in Lake Sagami. 7164
  of marine phytoplankton. 7333
  in serum, measurement of by radioisotopic, Euglena gracilis and Lactobacillus leichmanii methods. 2770
**Vitamin $B_{12}$ production and depletion,** in a naturally occurring eutrophic lake. 4004
**Vitamin composition,** of barley yeasts of different generations and their physiological activity. 5373
**Vitamin sources,**
  effect on development of Clathrospora. 1272
  influence on growth, sporulation, and pathogenicity of Cochliobolus sativus. 3227
**Vitamins,**
  effects of on alcoholic fermentation of molasses. 2404
  effect of Aspergillus flavus deterioration of grain on. 5794
  effect on growth and sporulation of Curvularia lunata. 1596
  effects of on sporulation in Fusarium. 5565
  effect on taxonomic characters of Diplodia. 3466
  from Ochromonas danica, secretion of into the environment. 2646
**Vitavax,**
  control of Ophiobolus graminis by. 5501
  control of wheat disease with. 4562
  effect on Aspergillus niger in vitro. 6134
  toxicity of against seed-borne pathogens of maize. 2355
**Vitavax seed treatment,** influence on yield of barley and wheat. 2345
**Vitiligo,** treatment of. 1697
**Vitis vinifera,** pre-harvest sprays of fungicides for control of storage decay in. 4641
**Voandzeia subterranea,** in Tanzania, Fusarium wilt of. 4583
**Volatile compounds,**
  of citrus fruits, germination of Penicillium digitatum spores as affected by. 7125
  produced by Dipodascus aggregatus, influence of different nitrogen sources on. 1588
  of mushrooms, characterization of. 1497
**Volatile inhibitor,** from certain alkaline soils, nature of. 7682
**Volatile metabolites,** from Trichoderma harzianum, identification and biological effects of. 7321
**Volatile metabolites (fungal),** biological activity of. 1357
**Volatile organic compounds,**
  in Boletus variegatus, production of. 237
  of ectomycorrhizae root systems of Pinus sylvestris, growth inhibition of 2 pathogenic fungi by. 6996
**Volcanic region (central),** of New Zealand, microbiological studies of thermal habitats of. 5905
**Vomiting and wasting disease,** of piglets, pathological findings in a disease similar to. 1066
**Voronit,**
  control of Ophiobolus graminis by. 5501
  use of to control snow mould of rye. 3042
**Vulvovaginitis,** due to moniliasis in adolescent girls. 1683

# W

**Wall (microspectrophotometric)**, of Japanese radish root infected by Peronospora parasitica. 2977
**Wall replication**, in Saccharomyces, use of fluorescein-conjugated concanavalin A to reveal the site of mannan insertion in. 7115
**Wall rings**, in Oedogonium, evidence concerning the possible evolution of. 3952
**Walnut**, biological and chemical agents in the treatment of against parasites of the vascular system. 3000
**Warthog**, isolation of trypanosoma from. 1732
**Waste (acidic low nitrogen)**, microbial process for. 7029
**Waste disposal (acid-iron)**, and summer distribution of standing crops in New York bight. 5802
**Wastewater**,
  algal-bacterial symbiosis for removal and conservation of nutrients in. 2418
  biostimulation and algal growth kinetics of. 1818
  from papermills, biological purification of by infiltration into soil. 5144
**Wastewater (lagooned)**, microbiology of scum formed at the surface of. 7712
**Wastewater (municipal)**, high purity oxygen in biological treatment of. 7027
**Wastewater effluent (secondary and tertiary)**, effects on algal growth in a lake-river system. 7024
**Wastewater sludge**, dewatering by heat treatment. 7028
**Watanabe medium**, for growing Chlorella pyrenoidosa. 346
**Water**,
  from different seas, content of Na, K and Ca in Platymonas viridis cultivated on. 7354
  effect of artificial aeration of on basin algaflora. 3260
  effect on ecology of corticolous lichens. 670
  growth of Acaulopage tetraceros in. 115
  influence of dose fractionation and postirradiation incubation on Saccharomyces cerevisiae zygote survival in. 2169
  initial studies on method of algal assay for nutrient parameters in. 4903
  loss of by sclerotia of Sclerotinia sclerotiorum during development. 2146
  methods of detecting fungi in organic detritus in. 4034
  microbial degradation of DDT metabolites to. 7716
  of North-West Turkmenia, first data on the algoflora of. 7059
**Water (brackish)**, Foraminifera of at the mouth of the Rhone. 3289
**Water (brackish and sea)**, off the English west coast, lower fungi from bottom probes of. 4040
**Waters (Calicut inshore)**, plankton of. 3261
**Water (coastal and oceanic)**, distribution of urea in. 3569
**Water (deep)**,
  in Brazil, additions to the algal flora of. 1304
  of Brazil, marine algae of. 1312
**Water (drinking)**, recommendation of 'cutrine' for. 6417
**Waters (equatorial)**, neustonic bacteria and phytoplankton in surface microlayers of. 4729
**Water (filtered Lake Erie)**, limiting nutrient elements in. 4354
**Water (flowing)**, environmental limits of plants in. 5170
**Water (fresh)**, ecology of heterotrophic microorganisms in. 4036
**Water (fresh or thermal)**, auto- and heteroantagonism and other effects of the excretions of algae in. 7161
**Water (hatchery)**, control of Ceratomyxa shasta by treatment of. 5679
**Water (heavy)**, effects of on cell division in heat-synchronized cells of Tetrahymena. 6116
**Water (inland)**, effect of salt content on diatom flora of. 3253
**Water (low-nutrient sub-tropical)**, nitrogen of phytoplankton from. 4153
**Water (microscopic)**, quality of and filtration efficiency. 1819
**Water (natural)**, distribution of blue-green algal viruses in various types of. 1785
**Water (ordinary and heavy)**, deep-tank culture of blue-green algae in. 3520
**Water (sea)**, influence of plankton on antibacterial activity of. 6630
**Water (surface)**, of northern Gulf of Mexico suspended matter in. 6563
**Water agar**, detection of Pleospora bjoerlingii infection of sugar beet seeds by. 350
**Water availability**, simulation model of lichen productivity as function of. 5292
**Water decomposition**, in algae, specific mechanism of in longwave spectral area. 1487
**Water microflora**, of Kapchagaj reservoir. 5291
**Water models**, arranged in series, gradations of bioactivity in. 3848
**Water movement**, measurement of in reference to benthic algal growth. 3529
**Water permeability**, and photosynthesis in marine algae. 3400
**Water potentials (osmotic and matric)**, growth of 2 root-rot fungi as affected by. 4548
**Water quality**,
  and detergent composition. 5801
  influence of on treatment plant location. 7032

**Water reclamation**, and algal harvesting. 1821
**Water relations**, of Fusarium wilt in tomato. 2357
**Water retaining capacity**, of host tissue after infection by Erysiphe graminis, effect of dinocap on. 3758
**Water sample (fresh)**, from tests with algae, estimation of potential productivity of. 7102
**Water storage (raw)**. 7714
**Water stress**, in cotton plants, changes in cytokinin activity associated with. 6986
**Water stress (plant)**, net photosynthesis, growth and transpiration in American elm seedlings as influenced by. 7630
**Water supply system design and management**, application of fundamental limnological research in. 5171
**Water uptake**, in fruit bodies of some hymenomycetes. 4854
**Water vapors**, effect of pretreatment with on subsequent germination and infectivity of uredospores of Puccinia graminis var. tritici. 4253
**Water well (drilled)**, at Collecchio parma, stratigraphic and hydrogeological information about. 1344
**Waterbuck**, isolation of trypanosoma from. 1732
**Watermelon**,
  effect of prior inoculations with non-pathogenic fungi on Fusarium wilt of. 4580
  resistant and susceptible to Fusarium semitectum, serological and immunoelectrophoretical studies on. 1002
**Watershed**, between Hombrechtiken and Bubikan, survey of algal flora of. 653
**Wave action**, sciaphilic substrate of populations of large Cystoseira exposed to. 1306
**Wave danger (Tasmanian coast)**. 6532
**Wave propagation**, of the protozoan axostyle, effect of fixation on. 7379
**Wax (cuticular)**, effect of on the infection rate of pathogenic fungi. 6665
**Wax (larch leaf)**, utilization of by Sporobolomyces roseus in situ. 4599
**Wax emulsion (heated)**, with benomyl and 2,6-dichloro-4-nitroaniline for control of post harvest decay of peaches and nectarines. 4642
**Wax fungicide treatments (postharvest)**, for control of decay of California nectarines. 2369
**Weathering (biochemical)**, of calcium-bearing minerals by rhizosphere microorganisms. 3816
**Webworm (fall)**, in Illinois, parasites and pathogens of. 6894
**Weed control**, effects of in grain sorghum on subsequent incidence of Verticillium wilt in cotton. 7677
**Weed hosts**, of Sclerotinia, study of in alfalfa fields. 2998
**Weeds**, survey of estimation of losses caused by. 3074
**Weevil (granary)**, mycetomal micro-organisms and total lipid and phospholipid in. 4035
**Weevil (sugarcane rootstalk borer)**, muscardine fungi pathogenic to. 6869
**Weibull's wing barley**, with race specific mildew resistance. 4564
**Whales (sei and blue)**, chonotrichid complex on Balaenophilus unisetus from. 1350
**Wheat**,
  action of fungicides on fungi occurring on. 6366
  activation of resistance of to stem rust. 4559
  additive resistance to stripe rust in. 3765
  benomyl rates and applications time for foot rot control of. 6951
  choline as fungal growth stimulants in anthers responsible for the susceptibility of to Fusarium graminearum. 6956
  control of common and dwarf bunt of by seed treatment with thiabendazole. 1123
  control of common and dwarf bunt of with systemic fungicides. 3013
  control of diseases of. 4608
  control of loose smut of with carboxin and benomyl. 6943
  course of infection in with differing susceptibility to Erysiphe graminis. 6331
  cuticle layer as determining factor for formation of mature appressoria of Erysiphe graminis on. 7112
  dichlorvos as inhibitor of aflatoxin production on. 7405
  diseases of. 1122
  effect of Aspergillus flavus deterioration of grain on amino acids and vitamins in. 5794
  effect of stem and leaf rust of on genotype-environment interaction for yield. 2336
  effect of vitavax seed treatment and loose smut infection on yield of. 2345
  elaboration of practicable method for the control of eye-spot disease in with systemic fungicides. 7653
  evaluation of seed-dressing fungicides against foot-rot of. 2866
  fungi in the root zone of. 3089
  Fusarium foot rot of as influenced by soil applications of anhydrous ammonia and ammonia-potassium azide solutions. 4586
  Fusarium wilt in in Romania. 5748
  genes for resistance to powdery mildew of in derivatives of Triticum. 5081
  genetics of Alternaria resistance in. 6350
  genetic analysis of stem rust resistance in 3 cultivars of. 1770
  host-parasite relations in loose smut of. 3017-3019
  host range of an isolate of Septoria nodorum from. 6983
  infection of with Eudarluca caricis. 6342
  investigations on the chemical compositions of spore and germ tube walls of rust uredo-

**Wheat, contd.**
    spores of. 5304
  isolates of Puccinia striiformis collected in England from. 6349
  leaf rust of in Canada. 6938
  losses from diseases of in Manitoba and Saskatchewan in 1970. 3075
  nomenclature for physiologic races of Puccinia striiformis causing infection of. 5210
  performance of fungicides against powdery mildew of in the field. 6906
  process of root infection of by Ophiobolus graminis. 7634
  side effects of herbicides on Erysiphe graminis and Cercosporella herpotrichoides on. 1108, 1757
  specialised form of Fusarium graminearum responsible for crown rot in. 1779
  sporulation and pathogenicity of Australian isolate of rust of. 2499
  stem rust of in Canada. 6933
  sterols of healthy and rust-infected primary leaves of. 4557
  studies on Sclerotium rolfsii isolates from. 3064
  sources of resistance in to speckled leaf blotch caused by Septoria tritici. 5127
  uredospore movement and observations on the epidemiology of rust in in north-eastern Australia. 6345
  viral particles from the agent of take-all disease of. 5140
**Wheat (Bowie),** relationship between genes conferring resistance to leaf rust races in. 6348
**Wheat (common),**
  chromosome location of 3 genes for leaf rust resistance in. 2177
  genetic basis for low coefficient of infection to stem rust in. 7641
  inheritance of leaf rust resistance in. 5084
**Wheat (durum),**
  dwarfism factors and resistance to Puccinia graminis tritici in. 3761
  inheritance of resistance to stem rust in. 3762
**Wheat (hexaploid),** new factor for resistance to common bunt in. 3014
**Wheat (improved),** threat to from races of Puccinia graminis tritici. 2335
**Wheat (male sterile),** biology and control of ergot on. 1105
**Wheat (spring),**
  effects of general yellow rust infection on 14 carbon assimilation, translocation and growth in. 3012
  effect of mixed inocula of Septoria on disease symptoms in. 522
  in Montana, investigations on Septoria nodorum in. 5126
**Wheat (transplanted),** incidence of brown rust in as affected by N, P and K fertilizers and crop rotations. 5083
**Wheat (winter),**
  damage caused to by brown rust of wheat. 3011
  fear of summer outbreak of yellow rust in. 1773
**Wheat cells,** parasitized by Puccinia graminis, examination of polysaccharides in. 6344
**Wheat cultivars (hexaploid),** leaf and stem rust resistance of. 1769
**Wheat diseases,** control of with systemic fungicides. 4562
**Wheat dough sugars,** fermentation of, by pressed and liquid yeast. 1456
**Wheat grain,** black point of. 7648
**Wheat grain proteins (Marquis),** effect of rust infection on. 2342
**Wheat infections,** caused by Cercosporella herpotrichoides, seasonal dependence of in the field. 2351
**Wheat kernal,** study of microflora of under storage conditions. 3110
**Wheat leaf blight and blotch,** losses and control of. 3756
**Wheat leaf rust,**
  in North Dakota, virulence and potential destructiveness of. 3763
  physiologic specialisation and sources of resistance to in Kenya. 3009
  race identification and distribution of in Iraq. 3010
**Wheat leaf surfaces,** behaviour of uredospore germ-tubes of Puccinia graminis tritici in relation to fine structure of. 3005
**Wheat leaves,** ultrastructural alterations in chloroplast of after infection with black rust. 1768
**Wheat leaves (rust-infected),** defence reaction induced by lysine in. 5735
**Wheat nursery,** natural rust epidemics in as affected by inoculum density. 6936
**Wheat roots,** infected with Ophiobolus graminis, study of using fluorescence and electron microscopy. 1759
**Wheat rust fungus (culturable),** comparison of with a bean rust fungus. 4706
**Wheat seedlings,**
  effect of temperature on eyespot in. 508
  infection of by Septoria nodorum in relation to environmental factors. 2379
**Wheat stem rust,**
  in East Africa, physiologic specialization and epidemiology of. 4558
  elimination of in North America. 2337
  folate and polyamine content of uredosporelings of. 203
  localization and enzymatic activities of Uredospore wall proteins of. 2651
  physiological races of in Canada. 1622
  stimulation of germination of uredospores of by n-nonanal and related compounds. 4254
  Triticum timopheevi as source of resistance to. 3006
  unrecognized source of overwintering of in the

**Wheat stem rust, contd.**
  US. 2338
**Wheat straw**, biosynthesis of humic acids during decomposition of by soil fungi. 4624
**Whirling disease**,
  control of. 3734
  detection of Myxosoma cerebralis spores in large lots of fish. 2140
**White rot**, of onion, effect of antibiotics on Sclerotium cepivorum causing. 1552
**White Sea**,
  ciliates of the rocky supralittoral zone in. 1354
  ecology of free-living Ciliata of. 2557
  ecology of psammophilous Protozoa in. 690
  limit changes of some specific diatomical seaweeds of in Holocene. 7147
**White Sea phytoplankton mass form requirements**, study of for elements of mineral nutrition by planned additions. 6165
**White sucker**, catostomi from. 129
**White wasting disease**, in Porphyra, manifestation of phosphorus metabolism. 863
**Wietmarscher Moor**, vegetational succession, fungal spores and short-term cycles in pollen diagrams from. 1807
**Wilt**,
  cotton protection from. 5131
  of cyclamen in California and its control. 7663
  influence of herbicides on mat production and bark beetle attack in oak trees infected by. 6904
  in Missouri, oak bark beetle attacks on oak trees with. 6903
  of oak, a numerical index for rating trees with. 1103
  in oil palm, properties of Fusarium oxysporum f.sp. elaeidis pectinases causing. 1420
  of potato, transpiration of plants in. 525
  in Tephrosia rogelii in India. 3752
**Wilt (cotton)**,
  biological control of. 4587
  caused by Verticillium, treatment with benomyl-surfactant combination. 524
**Wilt (cotton and olive)**, T-1 Verticillium str causing. 4600
**Wilt (fusariosis)**, nature and biosynthesis of the toxin of the causative agent of. 1139
**Wilt (Fusarium)**,
  control of in petunia with soil fumigants. 513
  in cotton, influence of Pratylenchus brachyurus on the incidence of. 5107
  effect of Pratylenchus penetrans on resistance of a pea var to. 2360
  of sunflower. 3780
  of susceptible and resistant tomato isolines. 7664
  in sweet potato, relationship of inoculum density and soil types to severity of. 1140
  of tomato in France, first observation of. 6957
  of Voandzeia subterranea in Tanzania. 4583
  water relations of in tomato. 2357
  of watermelon, effect of prior inoculations with non-pathogenic fungi on. 4580
  in wheat in Romania. 5748
**Wilt (Fusarium and Verticillium)**,
  effect of some growth retardants on in tomatoes. 1138
  of tomato, effect of phenanthrene and xanthene derivatives on. 3778
  of tomato, effect of various fluorene derivatives on. 2358
**Wilt (lateral)**,
  of raspberry, associated with Fusarium avenaceum. 5106
  and raspberry bud death. 7661
**Wilt (leaf)**, of oak, correlation of isolability of pathogen of and vascular water flow resistance in. 1102
**Wilt (Rhizoctonia solani and Verticillium)**, of potato, efficacy of potassium azide for control of. 6979
**Wilt (root)**, resistance or susceptibility, age of bearing and yield in young coconut palms in relation to development of. 6990
**Wilt (vascular)**,
  induced by Verticillium albo-atrum, mechanism of. 3065
  of lucerne caused by Verticillium alboatrum, protein changes in. 6987
  multiple infection and sympton mitigation in. 2359
**Wilt (Verticillium)**,
  of barberry and redbud, effect of heat treatment of soil on. 3094
  of cacao in Uganda. 3792
  of chrysanthemum, treatment with benomyl. 3069
  a clonal olive rootstock resistant to. 1150
  control of in tobacco with benomyl. 3067
  in cotton, changes in cytokinin activity associated with the development of. 6986
  in cotton, effects of weed control in grain sorghum on subsequent incidence of. 7677
  of cotton, root distribution as factor influencing sympton expression of. 3066
  in Gossypium hirsutum and Olea europaea in California, relation of Verticillium albo-atrum to severity of. 2381
  in Greece. 5132
  new high-yielding potato resistant to. 1784
  of potato, effect of annual soil fumigation and pre-harvest vine burning on. 7675
  of roses, comparison of symptons of with those of rose wilt virus. 3068
**Wilt (Verticillium dahliae)**, of cotton. 4601
**Wilt (Verticillium and Fusarium)**, of tomato, effect of soil pH and micronutrient amendments on. 5130

**Wilt fungus (tomato fusarium),**
- prevention of the spread of race 2 of. 7662
- symptomless carriers of. 3045

**Wilt resistance**, role of preformed inhibitors in Cucumis in. 4584

**Wilt resistance (Fusarium)**, in commercial cotton. 3043

**Wilting**, mechanism of action of fusicoccin causing. 6642

**Wine**,
- action of Candida mycoderma on fixed and volatile constituents of. 5164
- of different quality, content of D-gluconic acid in. 6410
- measurement of low levels of yeast contamination in. 1188
- yeasts causing biological instability in. 1519

**Wine (Haryana)**, nature and occurrence of yeasts in. 1950

**Wine-cellars**, in Naples, ecological study of. 662

**Wine grapes**, of Bordeaux, yeasts associated with. 4032

**Wine yeast**,
- comparative study of the antigens of by means of agglutination and immunofluorescence. 7507
- oleanolic acid as growth factor for. 3463
- study of. 5786
- transaminases of. 5996

**Winter**, ecological studies of the epilithic algae in in the Kongo-Gawa River in Japan. 7143

**Winter flight**, of bees, effects of on Nosema disease in honeybee colonies. 6893

**Winter oxygen depletion**, dependence of primary production on in a small senescing lake. 4009

**Winter fragmentation**, of Codium fragile in New England. 6084

**Wintering**, of grasses at the Muddusniemi Experimental Farm of the University of Helsinki, effect of Sclerotinia borealis on. 6980, 6981

**Wireworm larvae**, comparative mortalities caused by Metarrhizium anisopliae between field-collected and laboratory-reared. 1064

**Witches' broom growth**, suppression of in cacti by treatment with tetracyclines. 1128

**Witchweed**,
- fungi causing death of. 3062
- new fungal pathogens of. 3035

**Withertip**,
- caused by Colletotrichum gloeosporioides in Numbu. 510
- studies on Colletotrichum gloeosporiodes incitant of. 4574

**Wood**,
- decayed by Lenzites trabea, effect of on fatty acid composition of the eastern subterranean termites. 6408
- biodeterioration of in water cooling towers. 543, 544
- effectiveness of organotin and organolead preservatives against decay and soft rot fungi of. 1190
- fungal succession of fence posts laid from. 539
- reciprocal tyndallization of. 361
- from water-cooling towers, new fungi on. 1226

**Wood (decaying)**, Gloiosphaera clerciana of. 122

**Wood (hard)**, effect of near UV light on fungi colonizing. 1194

**Wood-attacking fungi**, from Brazil. 7077, 7699

**Wood blocks**, interaction between fungi in. 7014

**Wood decay**, prevention of. 5160

**Wood decay fungi**,
- function of enzymes in. 2614
- inhibition of by ellagitannins in the heartwood of Quercus alba. 7404
- interactions of with Streptomyces. 7013
- lignolytic activity of. 7701
- production of extracellular hydrogen peroxide and peroxidase by. 4226

**Wood destroying basidiomycetes**, selective medium for the isolation of. 2117

**Wood destroying Hymenomycetes**, identification of by means of kidney culture. 1238

**Wood destroying insects**, physiological influences on of wood compounds and substances produced by microorganisms. 4038

**Wood discolouration**, in seedling Katsura-tree, Dothiorella causing. 3037

**Wood inhabiting fungi**, growth of in saturated atmospheres of monoterpenoids. 7415

**Wood loss**, reduction of by special fungi. 6413

**Wood staining fungi**, from Brazil. 7077

**Wood shavings**, effect on soil microfungi. 3093

**Wooded areas**, of lower Austria, rare diatoms from ponds in. 2517

**Woodland**, spruce-lichen water relation in Ontario. 531

**Woodland (Aspen)**, around Moscow, epiphytic lichens of. 126

**Woodland (indigenous and exotic)**, of Rhodesia, ecology of Armillaria mellea in. 5922

**Woodland region (lower Austrian)**, comparative studies of brown-water ponds in. 3255

**Worm casts**, mycological studies on. 3811

**Woronin bodies**, in Erysiphe graminis. 3157

**Wort**, production of yeast mass during fermentation of by brewery yeast. 6400

**Wort (recirculated)**, semicontinuous cultivation of fodder yeast in. 5537

**Wort composition**, effects of on the rate and extent of fermentation by brewing yeast. 6401

**Wound (burn)**,
- occurrence and significance of yeasts and fungi in. 7540
- prevention of bacterial growth and local infection in. 7554

# X

**Xanthene derivatives**, effect on Fusarium and Verticillium-wilt of tomato. 3778
**Xanthocillins**, biogenesis of. 2654
**Xanthophyll content**, variation in during Chlorella photosynthesis. 4195
**Xanthotoxin**, from celery infected with Sclerotinia sclerotiorum, isolation and identification of. 5727
**Xenodiagnosis**, application of for the demonstration of Trypanosoma gambiense trypanosomiasis in immunologically suspect individuals. 6801
**Xerocomic acid**, constituent of, in Gomphidius rutilus. 284
**Xingu (upper)**, medical studies among Indians of. 4418
**Xylan**,
- from Chaetangium fastigiatum. 1450
- of Chaetangium fastigiatum, fine structure of. 4798

**Xylanase**,
- relationship to pathogenesis by Cytospora in peach. 3339
- from Stereum sanguinolentum, purification and characterization of. 745

**Xyleborus ferrugineus (adult female)**, comparative phospholipid compositions of and its mutualistic fungal ectosymbionts. 6057
**Xylem**,
- of carnation, direct penetration and passive transport of Phialophora cinerescens spores in. 3784
- of carnation, ultrastructural modifications of after infection with Phialophora cinerescens. 3785

**Xylem sap**, of tomato, changes in amino-acid content of following infection with Verticillium albo-atrum. 7676
**D-Xylose**,
- of Rhodotorula gracilis, induction of enzyme for catabolism of. 764
- in Rhodotorula gracilis, trehalose as metabolic product of. 7289

**D-Xylose isomerase**, of Rhodotorula gracilis, induction of for D-xylose catabolism by. 764
**β-Xylosidase**, from Fusarium oxysporum f.sp. lycopersici. 6008

# Y

**Yakushima island**, fungi from. 4736
**Yam**,
- as fungal culture media, comparison with cassava and potato dextrose agars. 349
- preharvest microbial rotting of. 3107

**Yaquina Estuary**, distributional patterns in assemblages of attached diatoms from. 2516
**Yarlington Mill fruit**, infection of with apple scab fungus. 2331
**Yeast phase**, of Histoplasma capsulatum, factors affecting mycelial to yeast phase conversion and growth of. 6105
**Yellow-spot disease**, of sugarcane, aeriobiology of Cercospora koepkei causing. 4570
**Yellowstone National Park**, effect of temperature fluctuation on blue-green algae of Bead Geyser in. 2709
**Yemenimycin**, mode of action of. 2100
**Yerba maté**,
- microbial flora of. 2416
- microflora of during the initial stages of processing from harvesting to drying. 5157

**Yield**,
- effect of stem and leaf rust of wheat on genotype-environment interaction for. 2336
- relationship to density of individuals in cultivated Porphyra. 7433

**Yield reduction**, induced by Verticillium, influence of chemical seed and soil treatment on. 6365
**Yorkshire**, death of sycamore trees at Otley in. 6992
**Yucatán**, marine algae of the Smithsonian-Bredin Expedition to. 5918
**Yugoslavia**,
- antagonistic relationship of some fungi towards pathogenic bacteria in the Stavuja river in. 3389
- microflora in an oil-field in. 2547
- operculate Discomycetes from Sarajevo in. 21
- relic Campylodiscus from. 561
- ultrastructure of frustules of diatoms in. 5181

**Yukon**, notes on Coprinus from. 1232
**Yoshii-Gawa River**, distribution of epilithic algae on the upper reaches of. 1311

# Z

- **Zaire (Republic of),**
  - observations on the sensitivity to diamidine compounds of recently isolated Trypanosoma gambiense in. 5054
  - sensitivity to diamidine compounds of some recently isolated Trypanosoma gambiense strs in. 5678
- **Zea mays,**
  - influence of nutrition on stalk rot development of. 1137
  - occurrence and characterization of common antigen relationship between Ustilago maydis and. 2205
  - reactions to Helminthosporium maydis toxin. 3054
  - reciprocal effects of with Aspergillaceae in mixed culture. 1781
  - toxicity of systemic fungicides against seed-borne pathogens of. 2355
- **Zea mays seedling**, reactions of with non-sterile, Texas male-sterile and restored Texas male sterile cytoplasms to Helminthosporium maydis toxin. 6967
- **Zearalenone**, production of by Fusarium graminearum in grain. 4830
- **Zeaxanthin**, from Arthrospira and Flexithrix dorotheae, chirality of. 4804
- **Zebu calf (growing)**, influence of ration and rumen inoculations on the establishment of rumen microorganisms in. 7378
- **Zebu cattle**, comparative investigations on an experimental Trypanosoma investigation in. 4513
- **Zinc,**
  - bioconcentration and toxicity of in selected algae. 4884
  - effect on growth and nitrogen content of lava. 3568
  - in Entamoeba invadens. 5452
  - of laver, relationship between chemical constituents in environmental factors. 791
- **Zinc (stable and radioactive)**, accumulation of in Phaeodactylum tricornutum. 5430
- **Zinc complexes**, of mannose-containing microbial polysaccharides, decomposition and binding action in soil of. 6380
- **Zinc Ion,**
  - control of corn blight by. 1154
  - effect on binding of yeast hexokinase with hydrocortisone. 1529
- $^{65}$**Zinc metabolism**, in chickens during coccidiosis. 2959
- **Zinc uptake**, in Neocosmospora vasinfecta. 6747
- **Zineb,**
  - control of corn blight by. 1154
  - control of Fusarium moniliforme rot of banana fruits with. 3041
- **Ziride**, in vitro evaluation of against Diplodia natalensis. 5513
- **Zoalene resistance**, in Eimeria tenella field str, research into experimental generation of. 4899
- **Zoites**, of Toxoplasma gondii in mice, experimental study of the activity of certain drugs on. 5708
- **Zonal rotor (B-XIV and B-XV)**, equivolumetric glycerol and sucrose gradients for. 6722
- **Zonarene**, from Dictyopteris zonarioides. 3405
- **Zonation,**
  - of algal belts in connection with frequency and duration of immersions. 5277
  - in Aspergillus niger, role of glucose in inductio and self-maintenance of internal rhythm of. 3225
  - in Enteromorpha, preliminary results on factors causing, using tide simulating apparatus. 5522
  - on oak and birch in south Devon, caused by corticolous lichens. 671
- **Zonation (littoral and sublittoral)**, at Teneriffe, observations on. 3248
- **Zoo aviaries**, survey of for the presence of Histoplasma capsulatum and Cryptococcus neoformans. 1636
- **Zoocoenoses**, of Halopteris scoparia, research on. 5279
- **Zoogeography**, bottom foraminifers from the continental shelf of West-Equatorial Africa and aspects of. 7192
- **Zoological garden**, importance of parasitological control examinations ard prophylactic and therapeutic measures to control parasitoses in. 6788
- **Zoospore,**
  - of Allomyces, amino acid immobilization of. 88
  - of Blastocladiella emersonii, germination of. 1913
  - of Blastocladiella emersonii, light-induced encystment of. 3451
  - of Blastocladiella emersonii, myelin-like 'artifacts' in. 7062
  - of Coelomomyces punctatus, ultrastructure of. 3890
  - of Oedogoniomyces, fine structure of compared with Monoblepharella zoospores. 5192
  - in Oedogonium, reproduction by. 3950, 3951, 3952
  - of Phytophthora cactorum, effect of soil water suction, soil temperature, carbon and nitrogen amendments and host rootlets on survival in soil of. 4616

**Zoospore, contd.**
  of Phytophthora megasperma var. sojae, behaviour of towards plant roots. 1271
  of Phytophthora palmivora, cyst wall formation and endogenous carbohydrate utilization during synchronous encystment of. 1269
  of Thraustochytrium, ultrastructure of. 5194
**Zoospore germination**, in Blastocladiella emersonii. 5242
**Zoospore production (in vitro)**, in Aphanomyces cochlioides. 4908
**Zoosporic fungi**, occurrence of in coastal soils of southwestern British Columbia and San Juan Islands. 4629
**Zycha**, Siepmann and Linnemann, supplements to the publication 'Mucorales' by. 1852
**Zygospore**,
  of Hydrodictyon reticulatum, development of. 6487
  of Rhizopus sexualis, fine structure and development of. 1854
**Zygospore (algal)**, morphology and relation to Myxomycetes spores. 13
**Zygospore formation**,
  by heterothallic Mortierella elongata. 3211
  in Mortierella, variation of. 5885
**Zygospore wall undulation**, of Basidiobolus, studies on. 6661
**Zygote**,
  in Fucus, ultrastructural study of the determined site of rhizoid formation in. 3882
  of Saccharomyces cerevisiae, effect of dose fractionation and postirradiation incubation on minimal medium on survival of. 2088
  of Saccharomyces cerevisiae, influence of dose fractionation and post-irradiation incubation in water on survival of. 2169
  of yeast, induction of recombination by decay of $^{32}P$ incorporated into. 7490
**Zygote formation**, in Ulva mutabilis, ultrastructure of fertilization and. 1908

# Species index

ABSCIDIA 3840
ABSIDIA 3431 7684 7708
ABSIDIA BLAKESLEEANA 160
ABSIDIA CORYMBIFERA 4161
ABSIDIA GLAUCA 77 1799 2403 2791
ABSIDIA PSYCHROPHILA 160
ABSIDIA RAMOSA 4161 6829
ABSIDIA REPENS 5649
ABSTOMA 1870
ACANTHAMOEBA 950 5067
ACANTHAMOEBA ASTRONYXIS 53 7565
ACANTHAMOEBA CASTELLANII 783 808 1927 1964 3291 4427 4759 6020 6021 6178 6425 7130 7290 7565
ACANTHAMOEBA COMANDONI 53
ACANTHAMOEBA GRIFFINI SP.N. 1889
ACANTHAMOEBA PALESTINENSIS 830 831 2473
ACANTHARIA 2554
ACANTHOECA BREVIPODA 7085
ACANTHOPHIOBOLUS 5197
ACAROPELTIS KIELMEYERAE 5831
ACARTIA CLAUSI 4341
ACARTIA LONGIREMIS 4341
ACAULOPAGE TETRACEROS 115
ACETABULARIA 1826
ACETABULARIA CALYCULUS 3343
ACETABULARIA CRENULATA 801 1504 4150 5397
ACETABULARIA MEDITERRANEA 711 2019 2037 3343 4234 4286 4666 4833 5959 6623 6659 7325
ACHAETOMIUM GLOBOSUM 1218
ACHAETOMIUM LUTEUM 1218
ACHAETOMIUM STRUMARIUM 3149
ACHAETOMIUM UNIAPICULATUM 3150
ACHANTHES HOLSATICA 2514
ACHANTHES LANCEOLATA VAR.BIMACULATA 2514
ACHANTHES LAUENBURGIANA 2514
ACHANTHES MINISCULA 2514
ACHLYA 83 3266 5421 6615
ACHLYA AMBISEXUALIS 2110
ACHLYA BISEXUALIS 880 3449 7282
ACHLYA FLAGELLATA 15 2109 7440
ACHYLA HETEROSEXUALIS 7282
ACHNANTHES 1808 2530 3247 3253 5267
ACHNANTHES MINUTISSIMA 3521
ACINETA GELATINOSA 6856
ACINETA TUBEROSA 2510 2511 3576
ACRASIS ROSEA 7363
ACREMONIUM KILIENSE 1407 6001 6002
ACREMONIUM SP. 1799
ACROCHAETIUM 6088
ACROCHAETIUM ASPARAGOPSIS 1210
ACROCHAETIUM ENDOPHYTICUM 1210
ACROCHAETIUM INFESTANS 1210
ACROCHAETIUM PECTINATUM 1997
ACROCYLINDRIUM 7239
ACROPHIOLOPHORA NAINIANA 6326
ACROSTALAGMUS CINNABARINUS VAR.MELINACIDINUS 7305
ACTINASTRUM 3262 3264 3266
ACTINOMUCOR ELEGANS 160 1775 2791 5413
ACTINOMUCOR REPENS 77
ACTINOMUCOR SCLEROTIORUM 1775
ACTINOMYCES 45
ACTINOMYCES AURIGINEUS 806
ACTINOMYCES ERYTHREUS 289
ACTINOMYCES LEVORIS 243
ACTINOMYCES NAESLUNDI 448
ACTINOMYCES NIVEUS 1157
ACTINOMYCES ODONTOLYTICUS 448
ACTINOMYCES RIMOSUS 402
ACTINOMYCES SPHEROIDES 341 893 1157
ACTINOMYCES STREPTOMYCINI 778 983
ACTINOMYCES TUMEMACERANS 596
ACTINOMYCETES 1028 1171
ACTINOPHRYS SOL 380
ACTINOPLANACEAE 45
ACTINOSCYPHA MUELLERI SP.N. 2458
ACTINOTAENIUM CUCURBITINUM VAR.ZONATUM 471
ACYTOSTELIUM LEPTOSOMUM 4614 7681
ADELINA 2314
ADELINA MELOLONTHAE 7606
AECIDIUM 5839 7638
AECIDIUM BALANSAE 1229
AECIDIUM ENDRESSIAE 1325
AECIDIUM FRAGIFORME 1229
AECIDIUM KAERNBACHII 7185
AECIDIUM SCHWENKIAE-AMERICANAE SP.N. 7185
AESSOSPORON SALMONICOLOR 7124
AGARDHIELLA RAMOSISSIMA 3821
AGARICALES 579 3827 4023 5896 6566 7067 7236
AGARICEAE 34
AGARICUS 2407 2780 4856
AGARICUS BAMBUSAE 2545
AGARICUS BERNARDII 4733
AGARICUS BISPORUS 712 1156 1467 1497 2406 2663 3079 3087 3155 5377 5404 543 5672 5777 5778 5779 6374 6404 661 7693
AGARICUS CAMPESTRIS 1593 5758 5778
AGARICUS CINNAMOMELLUS 2545
AGARICUS FISSURATUS 4734
AGARICUS MICROVOLVATULUS SP.N. 2545
AGARICUS PSEUDONIGER 2545
AGARICUS SORDIDOOCHRACEUS SP.N. 2545
AGARICUS TRISULPHURATUS 2545
AGARICUS VOLVATULUS 2545
AGGRFGATA EBERTHI 1890 1928
AGMENELLUM QUADRIPLICATUM 2707
AGMENELLUM QUADRUPLICATION 3480
AGMENELLUM QUADRUPLICATUM 4091 5453
AGREGATA EBERTHI 605
AGROCYBE 5204 5758
AGROCYBE AEGERITA 1230
AKAROPELTIS ANDINA 5831
AKAROPELTIS KIELMEYERAE 5831
AKAROPELTIS OLEAE 5831
AKAROPELTIS SYDOWII 5831
AKIBA CAULLERYI 1740 3719
AKKESIPHYCUS LUBRICUM 6719
ALARIA ANGUSTA 3879 3880
ALARIA CRASSIFOLIA 3879 3880
ALARIA CRISPA 3879 3880
ALARIA ESCULENTA 3879 3880
ALARIA FISTULOSA 3134 3135 3879 3880
ALARIA GRANDIFOLIA 3134 3879
ALARIA MARGINATA 3134 3135 3879 3880
ALARIA NANA 3134 3135 3879 3880
ALARIA OCHOTENSIS 3879
ALARIA PARADISEA 3879
ALARIA PRAELONGA 3879 3880
ALARIA PYLAII 3879
ALARIA TAENIATA 3134 3135 3879 3880
ALARIA TENUIFOLIA 3134 3135 3879 3880
ALBATRELLUS DISPANSUS 2566 4024
ALBATRELLUS SIMILIS 2566 4024
ALBERTINIELLA POLYPORICOLA 3892
ALBUGO TRAGOPOGONIS 5734
ALECTORIA INTRICANS 1337
ALECTORIA OCHROLEUCA 1228
ALEURIA 3893
ALEURIA DALHOUSIENSIS SP.N. 6451
ALEXANDRIUM MINUTUM 571
ALLESCHERIA BOYDII 325 449 2194 2240 4897 6827 6829
ALLOGROMIA LATICOLLARIS 3926
ALLOGROMIA OVOIDEA 6856
ALLOMYCES 1861
ALLOMYCES ARBUSCULA 317 1215 5284 6034
ALLOMYCES MACROGYNUS 317 906 4676 5969
ALLOMYCES NEO-MONILIFORMIS 794 881
ALNICOLA 5204

AKESA NOLINAE COMB.N. 5211
AKESA UNISEPTATA SP.N. 5211
AKESA YUCCAEFOLIA 5211
TERNARIA 761 1122 2544 2881 3024 3110 3384 3431 3490 3598 3645 3828 3905 4603 4624 4887 5106 5541 5734 5757 5783 6064 6326 6350 6351 6366 6467 6997 7011 7582 7715
ERNARIA ALTERNATA 2396 3834 4825 4888 5341
ERNARIA BRASSICICOLA 5799 6944
ERNARIA CITRI 1548 6609
ERNARIA COMPACTA 4362
ERNARIA CRASSA 4362
ERNARIA DAUCI 7005
ERNARIA KIKUCHIANA 2011 2750
ERNARIA LONGIPES 3769 4565
ERNARIA PORRI 1774 3023
ERNARIA PORRI F.SP.SOLANI 3088
ERNARIA RICINI 2348
ERNARIA SOLANI 2349 3770 4566 4856 5341 5739 5759 6985 7397 7623 1797 2206 2761 2785 3111 3279 3808 4560 4620 4648 5562 6135 6629 7016 7017 7631 7648 7698
ERNARIA TENUIS 119 354 509 514 540 1327
ERNARIA TENUISSIMA 5793
ERNARIA TRITICANA 5532
ERNARIA ZINNIAE 2011
HORNIA CROUCHII 1509
NITA 4107 4854
NITA CHLORINOSMA 5921
NITA MUSCARIA 869 4823 6386 6387
NITA MUSCULARIA 5503 -
NITA PANTHERINA 6251
NITA PHALLOIDES 250 251 833 1164 1478 2938 2939 2940 3541 4178 4179 4824 5416 5653 6061 6247 6632 6808 6809 7523
NITA RUBESCENS 1164
NITA VERNA 251
UROASCUS SPP. 1855
ROSIOZYMA GEN.N. 5195
ONIA TEPIDA 6421
EBA 365 366 454 902 1038 1039 1530 2199 2240 2848 2912 6420 6787
EBA DISCOIDES 403 951 2762 4760 5297 5451
EBA DUBIA 403 7724
EBA HISTOLYTICA 1708 2911
EBA NAVINA SP.N. 3927
EBA PROTEUS 54 403 951 1201 1426 2080 2746 2762 2797 3181 3182 3183 4879 5175 5451 6111 6158 6426 6656 6753 7343 7390 7724
EBA SPHAERONUCLEUS 951
EBIDA 694
EBIDIUM PARASITICUM 6228
EBOPHRYA ACANTHOMETRAE 1883
EBOPHRYA GRASSEI 1883
EBOPHRYA ROSEI 1883
EBOPHRYA STICHOLONCHAE 1883
RPHOTHECA RESINAE 620
HIDINIUM 1175
HIDINIUM AMPHIDINOIDES 4005
HIDINIUM CARTERAE 2807
HIDINIUM CARTERI 4651 4837 5915 6398
HIDINIUM KLEBSII 3874
HIROA CURRAE 648
HISIELLA MILNEI 7199
HISPHAERIA MARITIMA 1960
HORA 3 1969 5267
HORA BULLATOIDES 3240
HORA CALCUMETICA 3240
HORA CRISTODENTATA 3240
HORA CRUCIFERA 3240
AMPHORA FONTICOLA 3240
AMPHORA HEMICYLA 3240
AMPHORA HURONENSIS SP.N. 3240
AMPHORA MICHIGANENSIS 3240
AMPHORA MONTANA 1294
AMPHORA NEGLECTA 3240
AMPHORA OVALIS 3240 3247 3521
AMPHORA OVALIS VAR CONSTRICTA 3240
AMPHORA SUBCOSTULATA SP.N. 3240
AMYLARIA HIMALAYENSIS 2464
AMYLASCUS 23
AMYLOCARPUS SP. 1960
AMYLOCORTICIUM INDICUM SP.N. 7081
ANABAENA 606 924 1195 1289 1291 2418 2476 2527 4836 5262 5263 5364 5399 5423 5805 6514 6515 6516 6646 7095 7141
ANABAENA CATENULA 1825 7092
ANABAENA CIRCINALIS 4354 7093
ANABAENA CYLINDRICA 1382 1995 2108 2578 2687 2688 3397 3564 4128 4788 5319 5363 6032 7094 7361
ANABAENA DOLIOLUM 896 2740 4694 4695 4696 4868 4869
ANABAENA FLOS-AQUAE 150 294 369 1383 1384 1385 1824 1825 2040 3566 4149 4631 5179 5800 6657 7160
ANABAENA INAEQUALIS 6128
ANABAENA KARAMUMICA 7038
ANABAENA L-31 6069
ANABAENA ROBUSTA 7038
ANABAENA SCHEREMETIEVI 3255
ANABAENA SPIROIDES 3235 3570
ANABAENA VARIABILIS 151 277 877 1464 1484 2108 2806 3398 3433 3434 4085 5424 6073 7218 7679
ANABAENOPSIS 606 5399
ANABAENOPSIS CIRCULARIS 3564
ANABAENOPSIS INTERMEDIA 7038
ANABAENOPSIS RACIBORSKII 3239
ANABENOPSIS TANGANYIKAE 5177
ANACYSTIS 6515
ANACYSTIS CYANEA 3236 7164
ANACYSTIS MARINA 4091
ANACYSTIS MONTANA 1545
ANACYSTIS NIDULANS 272 606 640 698 789 2579 2580 2708 2806 3078 3435 4065 4066 4230 4631 4836 4869 4939 5320 5453 5495 6179 6180 6397 6658 7163 7200 7201 7202 7218
ANALIPUS JAPONICUS 572
ANAPLASMA MARGINALE 4478 6879
ANAPTYCHIA 5525
ANAPTYCHIA HYPOLEUCA 3284
ANAPTYCHIA OBSCURATA 3284
ANCISTRUMINA NUCELLAE 3188
ANCYROPHORA ROSTRATA 1891
ANDIRA JAMAICENSIS 98
ANGUINA TRITICI 1122
ANISOMA 4720
ANIXIOPSIS STERCORARIA 4957
ANKISTRODESMUS 1195 2417 3848 4715 6712 7326
ANKISTRODESMUS BRAUNII 721 2689 2710 3306 3637 7327
ANKISTRODESMUS FALCATUS 2822 3570 4631 4711
ANKISTRODESMUS SPP. 2527
ANNELLOPHORELLA 3168
ANOLIS CAROLINENSIS 5067
ANOMALINA 7191
ANOMOENSEIS 5267
ANTITHAMNION 4001
ANTITHAMNION BOREALE 5283
ANTITHAMNION FLOCCOSUM 5283

ANTITHAMNION PLUMULA 5959 5875
ANTITHAMNIONELLA 4001
APHANIZOMENON 3992 4354 4836 5282 7095
APHANIZOMENON FLOS-AQUAE 1291 2524 3235
3255 5169 5263 5278 6373 7160 7167
APHANIZOMENON FLOX-AQUAE 4004
APHANIZOMENON GRACILE 7161
APHANOCAPSA 193 3369
APHANOCAPSA GREVILLEI 4836
APHANODICTYON 1851
APHANOMYCES 3264 5119
APHANOMYCES ASTACI 5650
APHANOMYCES COCHLIOIDES 1160 1753 4534 4908
APHANOMYCES EUTEICHES 1161 2110 3961 4909
5068 6897
APHANOMYCES LEAVIS 2110
APHANOMYCES STELLATUS 2110
APHANOMYCOPSIS 1851
APHANOTHECE 4933
APHELIDIUM 7080
APIOSOMA CYLINDRIFORMIS 1079
APLANOCHYTRIUM KERGUELENSIS GEN.N.SP.N.
2450
APODACHLYA BRACHYNEMA 3314 3450
APOSPHAERIA 2033
APPENDICULARIA 688
AQUALINDERELLA FERMENTANS 7181
ARACHNIOTUS ALBICANS 6447
ARACHNIOTUS DANKALIENSIS 7467
ARACHNIOTUS GLOMERATUS 1855
ARACHNIOTUS LECTARDII 1855
ARACHNIOTUS STRIATISPORUS 1855
ARACHNIOTUS VERRUCULOSUS 6447
ARACHNIOTUS VOLATILIS-PATELLUS 6447
ARACHNOIDISCUS EHRENBERGII 7045
ARACHNOTHECA GLOMERATUS 1855
ARCELLA 4630 6420
ARCELLA GULVARIS 6856
ARCELLINIDA 694
ARCYRIA CARNEA 1846
ARCYRIA CINEREA 1849 5239
ARGYNNA 1869
ARMILLARIA MELLEA 2024 2332 2999 3279 3764
4252 4550 5504 5889 5922 6367 7702
ARMILLARIELLA 5729 5896
ARNAUDIELLA GENISTAE 4732
ARRHYTIDIA PULCHRA SP.N. 6465
ARTHROBOTRYS 6388
ARTHROBOTRYS CONOIDES 3976
ARTHROBOTRYS DACTYLOIDES 1832 5843 7120
7670
ARTHROBOTRYS MUSIFORMIS 1832
ARTHROBOTRYS OLIGOSPORA 1832 4681
ARTHROCARDIA SILVAE 647
ARTHRODERMA BENHAMIAE 2487
ARTHRODERMA SIMII 2487 4494 4957
ARTHROSPIRA 2429 4806 6514
ARTHROSPIRA JENNERI 642
ARTHROSPIRA PLANTENSIS 642
ARTOCARPUS 3910
ASAHINEA 5930
ASCHOCHYTA TELEPHII 7126
ASCOBOLUS 2825 6325
ASCOBOLUS ALBIDUS 3086
ASCOBOLUS BRASSICAE 3086
ASCOBOLUS CARBONARIUS 21
ASCOBOLUS CARLETONII 3086
ASCOBOLUS FURFURACEUS 21
ASCOBOLUS IMMERSUS 1604 1916 3086 4377 6183
6542 7477
ASCOBOLUS STERCORARIUS 1916
ASCOCHYTA 3025 4919 6353
ASCOCHYTA PISI 2063
ASCOCHYTA RABIEI 6352
ASCOCHYTA SOJAECOLA 6371
ASCOLOCULARES 5896
ASCOPHANUS 5833
ASCOPHANUS CARNEUS 1856
ASCOPHANUS GRANULIFORMIS 1856
ASCOPHANUS HYALINO-NIVEUS SP.N. 3894
ASCOPHANUS MELLEO-FUSCIDULUS SP.N. 3894
ASCOPHANUS MICROSPORUS 3086
ASCOPHANUS SUBFUSCUS 1856
ASCOPHYLLUM 7022
ASCOPHYLLUM NODOSUM 3956 5912
ASCOSPHAERA APIS 7581
ASCOTRICHA ARCUATA 1219
ASCOTRICHA CONGOENSIS 1219
ASCOTRICHA GUAMENSIS 1219
ASCOTRICHA LUSITANICA 22
ASCOTRICHA XYLINA 1219
ASPERGILLUS 119 221 309 462 463 665 885
1017 1410 1564 1574 1634 1654
1686 1797 1798 1988 2051 2057
2230 2240 2277 2369 2390 2408
2547 2625 2681 2761 2785 2877
2989 3089 3425 3431 3544 3586
3598 3633 3634 3635 3645 3668
3828 3845 3852 4115 4184 4419
4440 4441 4442 4443 4459 4496
4624 4634 4635 4641 4828 4878
4953 4954 5001 5002 5003 5012
5150 5156 5288 5614 5624 5656
5658 5659 5772 5773 5783 5799
6064 6216 6248 6260 6288 6326
6425 6728 6823 6827 6828 6829
7011 7259 7308 7309 7338 7401
7485 7545 7582 7684 7703 7707
ASPERGILLUS ALLIACEUS 6637 6639
ASPERGILLUS AMSTELODAMI 1283 4888 5122
7188 7488
ASPERGILLUS AURANTIOBRUNNEUS 38
ASPERGILLUS AURATUS 38
ASPERGILLUS AUREOLATUS 6212
ASPERGILLUS AVENACEUS 7241
ASPERGILLUS AWAMORI 747 4108 4114 6003
ASPERGILLUS BODENI 1673
ASPERGILLUS CANDIDUS 120 872 4161 4888
ASPERGILLUS CARBONARIUS 6998
ASPERGILLUS CARNEUS 2618 4109 6054
ASPERGILLUS CARNOYI 38
ASPERGILLUS CERVINUS 6998
ASPERGILLUS CHEVALIERI 321 1283 7009
ASPERGILLUS CHEVALIERI VAR INTERMEDIUS
ASPERGILLUS CHEVALIERI VAR.INTERMEDIUS
ASPERGILLUS CLAVATO-FLAVUS 7241
ASPERGILLUS CLAVATUS 532 2029 3364 3381
5342 6601
ASPERGILLUS DIVERSUS 3095
ASPERGILLUS EFFUSUS 5605
ASPERGILLUS ELEGANS 6639
ASPERGILLUS FISCHERI 38
ASPERGILLUS FLAVIPES 2728
ASPERGILLUS FLAVO-FURCATIS 7241
ASPERGILLUS FLAVUS 120 207 461 464 767
837 1055 1129 1130 1131 1165
1239 1408 1612 1480 1775 1776
2028 2029 2069 2120 2225 2226
2396 2619 2678 2698 3095 3096
3333 3375 3382 3423 3542 3628
4110 4161 4161 4180 4181 4225
4437 4438 4439 4636 4645 4826
5041 5091 5161 5303 5417 5439
5605 5654 5655 5794 5797 5861
6039 6063 6286 6382 6602 6860
7241 7306 7386 7387 7405 7524
ASPERGILLUS FOETIDUS 3080 7080
ASPERGILLUS FRUCTICULOSUS 38
ASPERGILLUS FUMARICUS 1541
ASPERGILLUS FUMIGATUS 38 120 204 286 32
430 443 461 464 913 1014 1015
1056 1635 1654 1655 1673 1676
2228 2229 2276 2396 2679 2856
2879 3411 3629 3630 3631 3693
3840 4161 4225 4296 4495 4877
4999 5042 5147 5343 5533 5595
5606 5607 5608 5609 5610 5611
5613 5633 6230 6248 6287 6388

PERGILLUS FUMIGATUS (CONT'D) 6810 6811 6821 7009 7502 7525 7682
PERGILLUS FUMIGATUS K IF 6132
PERGILLUS GIGANTEUS 2727
PERGILLUS GIGANTEUS MUT,ALBA 6645
PERGILLUS GLAUCUS 38 1815 3543 3835 5162
PERGILLUS HALOPHILICUS 38
PERGILLUS HUMICOLA 3389
PERGILLUS LUMBRICOIDES 5595
PERGILLUS MANGINII 1283
PERGILLUS MELLEUS 349 1986 6637 6639
PERGILLUS NIDULANS 38 77 94 95 353 377 400 418 815 975 976 1625 1626 1627 1628 1629 1673 2012 2620 2743 2840 2878 3095 3223 3487 3591 3975 4161 4279 4392 4951 5147 5344 5379 5418 5507 5582 5605 5611 5842 6046 6058 6100 6213 6382 6695 6771 7121 7471 7472 7525
PERGILLUS NIGER 77 96 120 143 172 205 282 286 516 748 823 911 913 977 978 979 1057 1166 1192 1409 1572 1594 1673 1676 1775 1776 1987 2350 2388 2389 2396 2621 2622 2685 2744 2752 2757 3095 3096 3224 3225 3365 3366 3500 3502 3698 3795 3796 3808 4111 4112 4115 4225 4287 4645 4827 4832 4888 5303 5345 5346 5347 5392 5406 5422 5441 5480 5506 5508 5605 5611 5795 6133 6134 6136 6152 6173 6354 6382 6508 6573 6603 6604 6605 6668 6669 6684 7080 7262 7244 7285 7321 7372 7525 7623 7723
PERGILLUS NIVEUS 2728
PERGILLUS OCHRACEOUS 6055
PERGILLUS OCHRACEUS 173 1058 2029 2030 4182 6635 6636 6637 6639 7307 7318
PERGILLUS ORYZAE 144 747 749 750 751 752 753 777 911 1178 1239 1411 1412 1413 1442 2623 2624 2880 3632 4110 4113 4114 4170 4214 4636 5212 5348 5349 5480 6005 6006 6133 7241 7243 7244 7286 7316 7706
PERGILLUS OSTIANUS 6637 6639
PERGILLUS PALLIDUS 754 755 1414
PERGILLUS PARASITICUS 252 253 837 838 839 840 1165 1239 3383 3771 6638 7241
PERGILLUS PENICILLIOIDES 1009
PERGILLUS PETRAKII 6639
PERGILLUS PHOENICIS 5480
PERGILLUS PSEUDOGLAUCUS 38
PERGILLUS PSEUDOLIVACEUS 7241
PERGILLUS PUNICEUS 6998
PERGILLUS REPENS 1283 4888
PERGILLUS RESTRICTUS 3543 3835 5162 7526
PERGILLUS RUBER 1283 4646 4647 4888 7015
PERGILLUS RUGULOSUM 3389
PERGILLUS SAITOI 3454
PERGILLUS SCLEROTIORIUM 7244
PERGILLUS SCLEROTIORUM 6637 6639
PERGILLUS SOJAE 174 175 756 1239 1615 4110 5212 5350 7241
PERGILLUS SULPHUREUS 4110 6637 6639
PERGILLUS SYDOWI 3095 4259 6382
PERGILLUS TAMARII 1239 4888
PERGILLUS TAPIRIRAE SP.N. 7077
PERGILLUS TENUIS 3111
PERGILLUS TERREUS 1781 3095 3424 4161 4225 4877 5440 6055 6174 6382 7009
PERGILLUS TERRICOLA 6670
PERGILLUS TOMARII 7241
PERGILLUS TONOPHILUS 38
PERGILLUS TOXICARIUS 7241
PERGILLUS TOXICARIUS SP.N. 1239
PERGILLUS UNILATERALIS 7244
PERGILLUS USTUS 254 2728
PERGILLUS VERSICOLOR 1799 2728 5000
PERGILLUS VIRIDI-NUTANS 4183
ASPERGILLUS WENTII 77 552 2652
ASPERGILLUS ZONATA 7241
ASPEROCOCCACEAE 3958
ASPIDISCA COSTATA 4710 6420
ASPIDISCA LYNCEUS 4710
ASPLANCHNA PRIODONTA 4263
ASSULINA 4630
ASSULINA MUSCORUM 1342
ASTASIA DIAPTOMI 3687
ASTASIA LONGA 3872 3873
ASTERINELLA IXORICOLA SP.N. 7182
ASTERIONELLA 2517
ASTERIONELLA FLACIALIS 1202
ASTERIONELLA FORMOSA 1202 3247 5263 5274
ASTERIONELLA GRACILLINIA 1202
ASTERIONELLA JAPONICA 4723
ASTERIONELLA KARIANA 1202
ASTERIONELLA NOTATA 1202
ASTERIONELLA RALFSII 1202
ASTEROBOLUS GAULTHERIAE SP.N. 5092
ASTEROCOCCUS SUPERBUS 4356
ASTEROCYTIS ORNATA 2715
ASTEROCYTIS RAMOSA 1997
ASTERODINIUM GRACILE G.N.SP.N. 5819
ASTEROMYCES 1960
ASTEROMYCES CRUCIATUS 5924
ASTEROPHORA CRATOPARIS 6308
ASTOMA 5229
ASTRAEUS 1870
ASTREPHOMENE GUBERNACULIFERA 6064
ASTYLOZOON FAUREI 3189
ASTYLOZOON PYRIFORME 3189
ATICHIA 2613
AUDOUINELLA MEMBRANACEA 6534
AUREOBASIDIUM PULLALANS 6554
AUREOBASIDIUM PULLULANS 757 1327 1328 3036 3275 3279 3793 5393 6012 6913 7684
AURICULARIA POLYTRICHA 6547
AURISCALPIUM 2463
AUSSULINA MUSCORUM VAR.GROSPIETSCHI 683
AUXARTHRON PSEUDAUXARTHRON 6447
AUXARTHRON PSEUDOAUXARTHRON 5146
AUXARTHRON PSEUDOAUXATHRON 5146

BABESIA 3723 4058 4989 6785
BABESIA ARGENTINA 417 1076 1077 3722 4348 4988 6309 6741 6880
BABESIA BERBERA 4429
BABESIA BIGEMINA 417 1076 1077 1078 1582 3722 4429 5682 6161 6309 6741 6807 6880
BABESIA BIGEMINUM 1347
BABESIA CABALI 6807
BABESIA CABALLI 3720 6807
BABESIA CANIS 2292 3619 4478 6807
BABESIA DIVERGENS 3722
BABESIA EQUI 6807
BABESIA GIBSONI 2291 3619 5056 6881
BABESIA MICROTI 1741 5683 6882
BABESIA OVIS 3721
BABESIA PANTHERAE 5684
BABESIA RHODHAINI 5493
BABESIA RODHAINI 1007 1741 3722 4980 4986 6741 6807
BABESIELLA BERBERA 6883
BACIDIA CRASSA 128
BACILLARIOPHYCEAE 654 1177 1311 1390
BACILLARIOPHYTA 565 1942 3844 3995
BACTERIASTRUM DELICATULUM 4723
BACTERIOPHYTA 3844
BACTEROIDES SYMBIOSUS 554
BADHAMIA GRACILIS 13
BAEODROMUS 7638
BAEOMYCES 5931
BAEOMYCES ROSEUS 5930
BALAENOPHILUS UNISETUS 1350
BALANTIDIUM 5067 7617
BALANTIDIUM COLI 6225 6855

BALANTIDIUM CTENOPHARYNGODONIS 1079
BALANTIDIUM DUODENI 2081
BALANTIDIUM ELONGATUM 2081
BALANTIDIUM ENTOZOON 2081
BANGIA 3883
BARBEYELLA MINUTISSIMA 14
BARNETTELLA INDICA 1880
BARNETTELLA SPECIOSA 1880
BARTALINIA NERVISEQUA 5211
BARTALINIA NOLINAE 5211
BARTALINIA ROBILLARDOIDES 5211
BASIDIOBOLUS 6661
BASIDIOBOLUS MERISTOSPORUS 941
BASIDIOBOLUS RANARUM 1952
BASIDIOBOLUS STRS. 2874
BASIDIOMYCETE 802 6926 7189
BASIDIOMYCETE QM806 3323
BASIDIOMYCETE QM 806 5390
BASIDIOMYCETE SP.QM806 2613
BASIDIOMYCETE SPP. 1231
BASIDIOMYCETES 309 539 743 744 1326 3425
BATRACHOSPERMUM MONILIFORME 7361
BATRACHOSPERMUM VAGUM 3959
BEAUVERIA 6467
BEAUVERIA BASSIANA 121 1059 1060 2022 3695 5044 5659 5925 6289 6861 6868 6869 7684
BEAUVERIA TENELLA 3696 7606
BEGGIATOA 4654
BELONIELLA 4025
BELONIUM NIGROMACULATUM SP.N. 2458
BESNOITIA 6350
BESNOITIA BESNOITI 7595.
BESNOITIA JELLISONI 1664 3622 7424
BESNOITIDAE 5259
BICOECA CRYSTALLINA 3855
BIDDULPHIA 3244
BIDDULPHIA LEVIS 4663
BIDDULPHIA MOBILIENSIS 7045
BIFUSELLA CUNNINGHAMIICOLA 6440
BIPOLARIS 6326
BISPOROSTILBELLA FUSCA 1881
BLAKESLEA TRISPORA 160 231 2035 3395 3409 4206 5467 6662
BLASTENIACEAE 601
BLASTOCLADIELLA 1510 5883 5903
BLASTOCLADIELLA BRITANNICA 906
BLASTOCLADIELLA CYSTOGENA 906
BLASTOCLADIELLA EMERSONII 703 906 1566 1913 2588 3651 4093 5242 7062
BLASTOCLADIELLA SIMPLEX 906
BLASTOCRITHIDIA TRIATOMAE 50
BLASTOMYCES 2241 2882 3624 4970 5634 6812 6828
BLASTOMYCES BRASILIENSIS 1330
BLASTOMYCES DERMATITIDIS 224 234 941 1460 1653 1654 1671 1726 1725 2209 4440 4751 4955 5533 5615 5616 5633 5656 5829 6249 6250 6290 6620 6829 7287
BLEPHARISMA 64 6114 6426 6856
BLEPHARISMA INTERMEDIUM 7135 7392
BLEPHARISMA SESHACHARI 3477
BLEPHAROCORYS 3190
BLEPHAROCORYTHIDAE 3190
BLODGETTIA 4619
BODO CAUDATUS 5850 6510
BODO SALTANS 5850 6420
BOERGESENIA FORBESII 5865
BOLBITIUS 5204
BOLBITIUS VITELLINUS 5758
BOLBOCOLEON 3869
BOLETACEAE 34
BOLETELLUS ANANAS 27
BOLETELLUS BETULA 27
BOLETELLUS CHRYSENTEROIDES 27
BOLETELLUS INTERMEDIUS 27
BOLETELLUS MIRABILIS 27
BOLETELLUS PICTIFORMIS 27
BOLETELLUS PROJECTELLUS 27
BOLETELLUS PSEUDOCHRYSENTEROIDES 27
BOLETELLUS RUSSELLII 27
BOLETUS 1795 5378
BOLETUS BOVINUS 284 3279
BOLETUS ELEGANS 1164 5503 6389
BOLETUS ERYTHROPUS 7068
BOLETUS GRANULATUS 5503 6387
BOLETUS LUPINUS 7068
BOLETUS LURIDUS 7068
BOLETUS PIEDMONTENSIS 28
BOLETUS PIEDMONTENSIS SP.N. 5205
BOLETUS QUELETII 7068
BOLETUS QUELETII VAR LATERITUS 7068
BOLETUS REICHERTII 7068
BOLETUS RUBINELLUS 973
BOLETUS SATANAS 7068
BOLETUS SCABER 4107 5503
BOLETUS SUBAEREUS 4737
BOLETUS TOROSUS 7068
BOLETUS VARIEGATUS 237 2725 3805 4618
BONDARZEWIA BERKELEYI 2464
BONDARZEWIA MONTANA 2464
BONNEMAISONIA HAMIFERA 1910 5237 5283
BORDETELLA PERTUSSIS 3691
BORNETIA CALIFORNICA 1211
BOSMINA COREGONI 4010
BOSMINIA LONGIROSTRIS 7714
BOSSIELLA CALIFORNICA 3136
BOSSIELLA CHILOENSIS 3136
BOSSIELLA ORBIGNIANA 3136
BOSSIELLA PLUMOSA 3136
BOTRIDIOPSIS ARHIZA 5762
BOTRYDIUM BECHERIANUM 4837
BOTRYDIUM GRANULATUM 2 7046
BOTRYOCLADIA GUINEENSIS 5822
BOTRYOCLADIA PAPENFUSSIANA 5913
BOTRYOCOCCUS 4724
BOTRYODIPLODIA ANANASSAE 1597
BOTRYODIPLODIA 1777
BOTRYODIPLODIA THEOBROMAE 541 758 2685 3467 3772 6466
BOTRYOSPHAERIA CORTICIS 4244
BOTRYOSPHAERIA DOTHIDEA 7628
BOTRYOSPHAERIA OBTUSA 541
BOTRYOSPHAERIA RIBIS 1512 7623
BOTRYOTINIA 7259
BOTRYOTRICHUM 4624
BOTRYTELLA MICROMORA 1209
BOTRYTIS 334 2989 4567 4919 5796 5896 6368 6412 6467 6948 7011 7617
BOTRYTIS ALLII 1542 2069 2350 5742
BOTRYTIS CINEREA 514 521 912 1286 1758 2121 2412 2750 2761 3026 3279 4641 4648 4885 5093 5094 5122 5509 5518 5740 5741 5742 6101 6410 6411 6749 6945 6946 6947 7016 7017 7240 7388 7406 7649 7651 7674 7698
BOTRYTIS CINEREA 4-22 6132
BOTRYTIS CONVOLUTA 5474 6123 7445
BOTRYTIS FABAE 1761 3809 5510 5742 6629
BOTRYTIS SQUAMOSA 5742
BOTRYTIS TULIPAE 5742 6355
BOVISTA COLORATA 7183
BOVISTA CRETACEA 1323
BOVISTA NIGRESCENS 1323
BOVISTA PLUMBEA 1323 5758
BRACHYDESMIELLA BISEPTATA 39
BREMIA LACTUCAE 16 1093 2315
BRETTANOMYCES 586
BRETTANOMYCES ABSTINENS SP.N. 587
BREVILEGNIELLA 1851
BRYODISCUS GRIMMIAE SP.N. 4025
BRYOPSIS HALYMENIAE 7098

BRYOPSIS HYNOIDES 1264
BRYOPSIS PLUMOSA 4697 4716 6534
BRYOPSISCORTICULANS 7688
BRYOTHAMNION SEAFORTHI 7099
BUELLIA 5930
BUELLIA HALIOTREPHA 3280
BULGARIA INQUINANS 6544
BULIMINA 7191
BULLERA ALBA 6056
BULLERA TSUGAE 6056
BULLINULARIA SP. 678
BURGOA VERZUOLIANA 3163
BURSARIA TRUNCATELLA 64
BYRONIA 98
BYSSOASCUS STRIATISPORUS 1855
BYSSOCHLAMYS FULVA 7364
CAENOMOPHA 2558
CAEOMA PINITORQUUM 7637
CALANUS FINMARCHICUS 4341
CALCARISPORIUM THERMOPHILE 1240
CALLIBLEPHARIS FIMBRIATA 3527
CALLITHAMNION CORYMBOSUM 6534
CALLITHAMNION ROSEUM 5874
CALLITHAMNION TETRAGONUM 1267
CALLOPHYLLIS FIRMA 7105
CALOCERA CORNEA 4704
CALONECTRIA DECORA 865
CALONECTRIA THEAE 7629
CALONEIS 5267
CALONEIS AMPHISBAENA 7162
CALOPLACA AURANTIA 1252
CALOPLACA AURANTIACA 5525
CALOPLACA ERYTHROCARPA 1252
CALOPLACA FLAVOVIRESCENS 1252
CALOPLACA PYRACEA VAR.LEUCOSTIGMA 1252
CALOPLACA VELANA 1252
CALOTHRIX 606 5364 5399
CALOTHRIX ELENKINII 7038
CALOTHRIX THERMIS 877
CALVATIA SACCATA 4107
CALVATIA TATRENSIS 1323
CALVATIA UTRIFORMIS 1323
CALVICEPS 4822
CALYCINA HERBARUM 6441
CAMPYLODISCUS CADOI 561
CAMPYLODISCUS JURILJII 561
CAMPYLODISCUS MARGINATUS 5181
CAMPYLODISCUS PERVULSUS 5181
CAMPYLODISCUS STRIATUS 5181
CANDIDA 44 45 107 227 431 435 447 547 586
1000 1024 1025 1242 1329 1657 1685
1686 1687 1692 1650 2122 2193 2232
2241 2755 2785 2888 2890 3114 3547
3598 3644 3668 4218 4219 4335 4887
4889 4918 5010 5011 5012 5013 5624
5625 5656 5658 5786 6153 6154 6177
6233 6257 6258 6259 6260 6274 6286
6405 6698 6828 7011 7186 7220 7273
7417 7447 7506 7537 7538 7539 7540
7541 7542 7543 7544 7550 7695
CANDIDA ALBICANS 206 255 329 408 432 433
436 437 438 441 443 465 466 477
634 677 886 913 998 999 1018 1019
1020 1021 1055 1061 1179 1180 1416
1481 1524 1525 1549 1573 1635 1656
1677 1678 1679 1680 1681 1682 1683
1684 1694 1729 1726 1727 1728 2070
2099 2100 2101 2102 2190 2191 2192
2207 2230 2249 2278 2548 2553 2729
2753 2754 2774 2815 2841 2842 2857
2858 2859 2861 2883 2884 2885 2886
2887 2894 2941 3096 3169 3274 3470
3488 3502 3597 3599 3610 3611 3629
3636 3637 3638 3639 3640 3641 3642
3691 3697 3829 3876 4179 4280 4292
4294 4295 4296 4297 4303 4333 4398

CANDIDA ALBICANS (CONT'D)
4399 4421 4444 4445 4446 4447 4448
4449 4472 4497 4739 4740 4741 4890
4916 4917 4956 4958 4970 5004 5005
5006 5007 5008 5009 5027 5163 5441
5475 5533 5534 5541 5596 5597 5613
5617 5618 5619 5620 5621 5622 5623
5633 5926 6102 6217 6219 6231 6232
6251 6252 6253 6254 6255 6266 6291
6293 6519 6553 6574 6693 6696 6697
6701 6769 6775 6779 6790 6813 6814
6815 6816 6817 6818 6819 6820 6821
6822 6823 6824 6829 6862 6863 6866
7075 7272 7389 7407 7416 7446 7494
7502 7527 7528 7529 7530 7531 7532
7533 7534 7535 7545 7558
CANDIDA ALBICANS PN10 6132
CANDIDA BOGORIENSIS 5351
CANDIDA BOIDINII 5563
CANDIDA BOLETICOLA 3908
CANDIDA BRUMPTII 886
CANDIDA BUTYRI 3908
CANDIDA CATENULATA 2753
CANDIDA CITREA 3906
CANDIDA CLOACAE 4215 6078
CANDIDA CRUSEI 4171 4360
CANDIDA CURIOSA 5435
CANDIDA DEFORMANS 3976
CANDIDA DENDRONEMA SP.N. 1954
CANDIDA ENTOMOPHILA SP.N. 1954
CANDIDA FIBRAE 3907
CANDIDA FRAGICOLA 3907
CANDIDA GUILLIERMONDII 443 759 887 980
1241 1500 1549 1591 1630 2013 2181
2278 2653 2753 2842 3471 3641 4171
4216 4296 5006 5380 5381 6292 6671
6818 7075 7583
CANDIDA HUMICOLA 1417 3336
CANDIDA HYLOPHILA SP.N. 1954
CANDIDA INTERMEDIA 5781 7469
CANDIDA KRUSEI 443 937 1549 2192 2753 3906
3976 4296 4333 4956 4958 5004 6292
6923 6721 6866 7075
CANDIDA LIPOLYTICA 322 841 888 980 1499
3108 3335 3426 3427 3471 3489 4116
5407 5441 5536 6103 6628 6729 6730
CANDIDA MACEDONIENSIS 635
CANDIDA MARINA 6056
CANDIDA MELIBIOSI 1500
CANDIDA MYCODERMA 937 1498 2753 3269 3336
5164
CANDIDA PARAPSILOSIS 663 1549 2680 2842
3643 4071 4077 5006 6219 6293 6721
6818 7075
CANDIDA PELLICULOSA 6327 5781
CANDIDA POLYMORPHA 7297
CANDIDA PSEUDOTROPICALIS 1549 2192 2753
4296 4333 4446 4956 5006 7075 7407
CANDIDA PULCHERRIMA 1555 4633 4832 5781
CANDIDA QUERCUUM 3908
CANDIDA REUCAUFII 980
CANDIDA RUGOPELLICULOSA 3906
CANDIDA RUGOSA 3357
CANDIDA SAKE 3275
CANDIDA SCOTTII 1459 3177 4363 5890 6685
CANDIDA SEPSIS 7527
CANDIDA SILVANORUM SP.N. 1954
CANDIDA SLOOFFII 5476
CANDIDA SORBOXYLOSA 3906
CANDIDA SP. 435 825 1023 2195 2254 2703
2775

CANDIDA STATTI 5781
CANDIDA STELLATOIDEA 1549 2858 3641 7075 7411 7536
CANDIDA STR H17 5408
CANDIDA TROPICALIS 209 240 443 805 824 887 960 1022 1418 1443 1459 1468 1469 1499 1549 2052 2071 2101 2102 2147 2192 2231 2730 2753 2858 3471 3503 4078 4134 4140 4171 4172 4295 4298 4360 4813 4857 4956 5006 5442 5535 5536 5782 6256 6293 6628 6655 6672 6698 6866 7075
CANDIDA UTILIS 210 241 306 355 713 714 760 889 890 937 940 980 1419 1459 1526 1595 2090 2112 2730 2731 2816 2817 3338 3628 3545 3546 4217 4256 4298 4334 4655 4891 5352 5374 5470 5511 5537 5538 6007 6045 6104 6606 6628 6673 6674 7245 7373
CANDIDIA GUILLIERMONDII 208
CANTERIA 3889
CANTHARELLUS 7072
CANTHARELLUS APPALACHIENSIS 4679
CANTHARELLUS AURANTIACUS 1164
CANTHARELLUS BOREALIS 4679
CANTHARELLUS CANADENSIS 580
CANTHARELLUS CIBARIUS 6387
CANTHARELLUS WELLINGTONENSIS 31
CAPILLARIA OBSIGNATA 2747
CARBOMYCES 23
CARBOSPHAERELLA . 1960
CARCHESIUM 5176
CARCHESIUM POLYPINUM 3191
CARICETUM FIRMAE CARPATICUM 581
CARPINUS 6457
CARTERIA EUGAMETOS 2528
CARYOSPORA STRIGIS 6559
CASSIA OCCIDENTALIS 1594
CATENARIA 1510
CAULACANTHUS USTULATUS 3248
CAULERPA OLLIVIERI 2520
CAULERPA PROLIFERA 3394
CAULERPA RACEMOSA 7099
CAULERPA SEDOIDES 4316
CAULERPA SERTULARIODES 5425
CAVOSTELIUM BISPORUM 5189
CENOCOCCUM GRAINFORME 3806
CENOCOCCUM GRANIFORME 356 1164 6386
CENTROPAGES HAMATIUS 4341
CENTROPYXIS 678 4630 5298
CENTROPYXIS ADAMI SP.N. 679
CENTROPYXIS AEROPHILA 1342
CENTROPYXIS AUSTRIACA F.N. 679
CENTROPYXIS HIRSUTA FMA.IRREGULARIS F.N. 1255
CENTROPYXIS JANETSCHEKI SP.N. 679
CENTROPYXIS MIRABILIS 6856
CENTROPYXIS PLAGIOSTOMA SP.N. 1255
CENTROPYXIS PLATYSTOMA 1342
CEPHALEUROS VIRESCENS 1777 5188
CEPHALOASCUS FRAGRANS 5448
CEPHALOSPORIUM 302 449 941 1166 1544 2168 4176 4887 5122 6057 6388 6655 6827 7706
CEPHALOSPORIUM ACREMONIUM 256 1790 2355 2403 3690 4829 6326 6770
CEPHALOSPORIUM DIOSPYRI 6949
CEPHALOSPORIUM GREGATUM 3027 3773 5095 5096
CEPHALOSPORIUM MYCOPHILUM 2403
CEPHALOSPORIUM RECIFEI 4862
CEPHALOTHECA ZEYHERIAE SP.N. 7699
CERAMIUM 3959
CERAMIUM DESLONGCHAMPI 6536
CERAMIUM NITENS 3821
CERAMIUM RUBRUM 4090
CERATAULINA BERGONI 4723 6630
CERATIOMYXA FRUTICULOSA 6435
CERATIUM 1295 2527
CERATIUM CORNUTUM 1195
CERATIUM EGYPTIACUM 7154
CERATIUM GIBBERUM 3204
CERATIUM GIBBERUM F.SINSITRA 3204
CERATIUM HIRCUS 4011
CERATIUM HIRUNDINELLA 1195 7155
CERATIUM HIRUNDINELLA F.FURCOIDES 3131
CERATIUM TRIPOS F.ATLANTICA 3204
CERATIUM UNCINUS SP.N. 5819
CERATOCOLAX HARTZII 6534
CERATOCYSTIS 3384 5896
CERATOCYSTIS ADIPOSA 7365
CERATOCYSTIS ALBA 6327
CERATOCYSTIS AMBROSIA 4543
CERATOCYSTIS BICOLOR 6720
CERATOCYSTIS BREVICOLLIS 5213
CERATOCYSTIS CANA 4543
CERATOCYSTIS COERULESCENS 2626 7365
CERATOCYSTIS CRASSIVAGINATA 6327
CERATOCYSTIS EPIGLOEUM 37
CERATOCYSTIS FAGACEARUM 1102 2992 6903 6906 7623
CERATOCYSTIS FIMBRIATA 1096 1104 4543 5075 6327 6720 7623
CERATOCYSTIS IPS 5040 6720
CERATOCYSTIS MAJOR 6720
CERATOCYSTIS MINOR 932 6327 6720 7189 7365 7415
CEPATOCYSTIS MINUTA 6720
CERATOCYSTIS MINUTA-BICOLOR 6720
CERATOCYSTIS MONILIFORMIS 6327
CERATOCYSTIS MONTIA 1321 6720
CERATOCYSTIS MOREAU 4543
CERATOCYSTIS PILIFERA 6327 6720 7365
CERATOCYSTIS PLURIANNULATA 7365
CERATOCYSTIS POPULINA 4543 6327
CERATOCYSTIS RETUSI 5213
CERATOCYSTIS SERPENS 4543
CERATOCYSTIS STENOCERAS 1221
CERATOCYSTIS TREMULO-AUREA 6327
CERATOCYSTIS ULMI 1117 2324 2993 4546 4910 5097 6328 6905 7365 7623 7630
CERATOMYXA SHASTA 5679
CERATOSPORELLA NOVAE-ZELANDIAE 39
CERATOSPORELLA STIPITATA 39
CERCOSPORA 891 1955 2544 3030 3031 3055 4603 5133 6371
CERCOSPORA ARACHIDOLA 2782
CERCOSPORA BETICOLA 1132 1133 1527 3028 3226 3774 4257 4393 4568 4785 7652
CERCOSPORA CANESCENS 6950
CERCOSPORA CARTHAMI 2072
CERCOSPORA CITRULLINA 4569
CERCOSPORA CONCORS 5759
CERCOSPORA CROTALARIAE 5564
CERCOSPORA FUSIMACULANS 507
CERCOSPORA HENNINGSII 5098
CERCOSPORA HERPOTRICHOIDES 4571
CERCOSPORA HIBISCINA 5564
CERCOSPORA KIKUCHII 1778 7631
CERCOSPORA KOEPKEI 6570
CERCOSPORA MEDICAGINIS 6974
CERCOSPORA MELONIS 826 873
CERCOSPORA OMPHAKODES 3029
CERCOSPORA PERSONATA 1776
CERCOSPORA QUERCI VAR.ROBUR FORM.N. 5927
CERCOSPORA SISSOO 7076
CERCOSPORA SORGHI 3766
CERCOSPORA WITHANIAE 5564
CERCOSPORA ZEBRINA 1113
CERCOSPORELLA 5099
CERCOSPORELLA HERPOTRICHOIDES 176 335 508 664 1108 1757 2351 2352 6951 7653
CERIOMYCES 6452

CERIOSPOROPSIS HALIMA 5243
CERIOSPORUS 1960
CEROTOCYSTIS FAGACEARUM 1103
CETRARIA 1185
CETRARIA ISLANDICA 6072
CETRARIA NIVALIS 2419 5930
CETRARIA RICHARDSONII 5930
CETRELIA ALASKANA 5930
CEUTHOSPORA 4682
CEUTHOSPORA INNUMERA 5743
CHAETANGIUM FASTIGIATUM 1650 4798
CHAETOCEROS 1295 1296 1297 1808 2691 4006 5268
CHAETOCEROS AFFINIS 4723
CHAETOCEROS BULBOSUM 4005
CHAETOCEROS COMPRESSUS 6165
CHAETOCEROS CONSTRICTUS 6165
CHAETOCEROS CURVISETUS 4723 6165
CHAETOCEROS DEBILIS 6165 6630
CHAETOCEROS DECIPIENS 4723
CHAETOCEROS DICHAETA 4005
CHAETOCEROS GALVESTONENSIS 2691
CHAETOCEROS LACINOSUS 6165
CHAETOCEROS SIMILIS 6165
CHAETOCEROS SOCIALIS 2529 6630
CHAETOCEROS SUBTILIS 6165
CHAETOCERUS DECIPIENS 5802
CHAETOGNATHA 688
CHAETOMIACEAE 4502
CHAETOMIDIUM FRAGILIS SP.N. 6442
CHAETOMIUM 119 521 657 2544 2780 3431 5832
CHAETOMIUM BOSTRYCHODES 78 6326 7413
CHAETOMIUM FIMENTI 286
CHAETOMIUM GLOBOSUM 302 1190 1220 2562 3096 3279 3704 5146 5799 6044 6152
CHAETOMIUM GLOBULOSUM 1186
CHAETOMIUM INDICUM 2403 4161
CHAETOMIUM NIGRICOLOR VAR,SIMPLEX 7001
CHAETOMIUM OLIVACEUM 1322
CHAETOMIUM PILULIFERUM 907
CHAETOMIUM REFLEXUM 5146
CHAETOMIUM SUCCINEUM 78
CHAETOMIUM THERMOPHILE VAR,COPROPHILE 2061 2718
CHAETOMIUM THERMOPHILUM 2591
CHAETOMIUM TORTILE 6019
CHAETOMORPHA 3127 5182
CHAETOMORPHA AEREA 7688
CHAETOMORPHA DARWINII 1199
CHAETOMORPHA MELAGONIUM 1838
CHAETONOTUS VULGARIS 380
CHAETOPHORA ELEGANS 6050
CHAETOSPHAERIA SP. 1960
CHAETOTHYRIUM DOMINGENSE 98
CHAMAESIPHON INCRUSTANS 3247
CHANTOCALANUS PAUPER 4725
CHAOS CAROLINENSIS 2422 5808 7724
CHAOS CHAOS 2079 3181 6081 6426 7343
CHARA 111 3579 4007 5183
CHARA AUSTRALIS 562 3868
CHARA BRAUNII 5806
CHARA CONNIVENS 562
CHARA CORALLINA 562
CHARA DELICATULA 878
CHARA GLOBULARIS 562
CHARA GYMNOPITYS 562
CHARA PREISSII 562
CHARACEAE 3847
CHARCHESIUM POLYPINUM 1068
CHARONINA 3190
CHARONNAUTES 3190
CHAROPHYCEAE 5183
CHEILYMENIA PALLIDA 117
CHEILYMENIA PULCHERRIMA 4732
CHIHARAEA BODEGENSIS 647
CHILODONELLA 5709 6322
CHILODONELLA CUCULLULUS 3192 3193
CHILODONELLA CYPRINI 1079 5299 6856
CHILODONELLA HEXASTICHA 5299
CHILOMASTIX 2853
CHILOMASTIX MESNILI 4415
CHILOMONAS 107 951
CHILOMONAS PARAMECIUM 4937
CHLAMYDOMONAS 790 1292 2152 3438 3566 3570 3848 4394 4882 4933 4939 5169 6396 6398 6426 7047 7160 7162 7326 7476
CHLAMYDOMONAS ACUTOVALIS 6486
CHLAMYDOMONAS ANGULOSA 6485
CHLAMYDOMONAS BILATUS 6486
CHLAMYDOMONAS CHLAMYDOGAMA 6644
CHLAMYDOMONAS CONFERTA 6485
CHLAMYDOMONAS CONOCYLINDRICUS 6485
CHLAMYDOMONAS DYSOSMOS 5568
CHLAMYDOMONAS EUGAMETOS 722 6644
CHLAMYDOMONAS FOTTII 4667
CHLAMYDOMONAS GEITLERI 6486
CHLAMYDOMONAS GERLOFFII 6485
CHLAMYDOMONAS GLOBOSA 3997 5960
CHLAMYDOMONAS GLOEOPHILA 6486
CHLAMYDOMONAS ISABELIENSIS 4667
CHLAMYDOMONAS LEWINII 6486
CHLAMYDOMONAS MOEWUSII 722 6644
CHLAMYDOMONAS MOEWUSSII 6 7327
CHLAMYDOMONAS MUNDANA 6397
CHLAMYDOMONAS NIVALIS 4717
CHLAMYDOMONAS OBVERSA 6486
CHLAMYDOMONAS OLIFANII 6485
CHLAMYDOMONAS PALLIDOSTIGMATICA 4667
CHLAMYDOMONAS PARKEAE 6485
CHLAMYDOMONAS PRAECOX 6485
CHLAMYDOMONAS PSEUDOMICROSPHAERA 4667
CHLAMYDOMONAS REINHARDII 6 7 194 294 608 722 1387 1602 1603 1827 1829 1970 1996 2434 2582 2711 2741 2767 2821 3128 3201 3344 3523 3580 4356 4370 4762 4834 4835 4844 4870 4937 4940 4941 4942 4943 5305 5367 5426 5569 5570 5942 5960 5961 6030 6166 6181 6182 6613 6644 6754 6755 7265 7327 7351 7430 7431
CHLAMYDOMONAS ROTULA 6485
CHLAMYDOMONAS SAXONENSIS 6485
CHLAMYDOMONAS TERRICOLA 4903
CHLAMYDOMONAS TEXENSIS 4667
CHLAMYDOMUCOR ORYZAE 5413 5776
CHLORELLA 152 270 271 323 609 861 1432 1486 1502 2034 2059 2528 2811 3243 3399 3441 3990 4272 4317 4329 4355 4715 4752 4882 4905 4933 5233 5323 5427 5460 5553 5554 5915 6070 8083 6145 6398 6515 6581 6582 7160 7352
CHLORELLA AUTOTROPHICA 4837
CHLORELLA ELLIPSOIDEA 2690 3824 5521
CHLORELLA ELLIPSOIDIA 4906
CHLORELLA EMERSONII 820
CHLORELLA FUSCA 789 860 1630 2058 2649 2689 3306 4845 6031 7216 7217 7327 7361 7459
CHLORELLA FUSCA 211-8B 6168
CHLORELLA KESSLERII 904
CHLORELLA PROTOTHECOIDES 564
CHLORELLA PYRENOIDES 418
CHLORELLA PYRENOIDOSA 248 272 296 313 314 366 371 372 563 1386 1485 1487 1837 1971 2418 2565 2583 2657 2810 3307 3345 3384 3439 3440 3495 3522 3824 4086 4087 4151 4194 4195 4235 4356 4835 4846 4871 5321 5322 5456 5457 5458 5496 5962 6082 6397 6614 7218 7395 7430
CHLORELLA SOROKINIANA 1176 3481

CHLORELLA VULGARIS 220 315 546 1451 1464 1817 2420 2586 2689 4088 4631 4658 4903 5169 5251 5368 5459 6144 6167 6397 7163 7216 7278 7279 7326 7327 7395 7430
CHLORIDELLA NEGLECTA 6712
CHLOROBIUM 276
CHLOROBOTRYS REGULARIS 5
CHLOROCLOSTER PACHYCHLAMUS 6712
CHLOROCOCCUM 1546 2528 6398 6712
CHLOROCOCCUM ECHINOZYGOTUM 4356
CHLOROCOCCUM ELLIPSOIDEUM 3997 5940
CHLOROCOCCUM HUMICOLUM 277
CHLOROCOCCUM MINUTUM 6995
CHLOROCOCCUM MULTINUCLEATUM 6995
CHLOROGLOEA 3369 5399
CHLOROGLOEA FRITSCHII 606 3564
CHLOROGLOEOPSIDACEAE 1834 3123
CHLOROGONIUM ELONGATUM 8 2038 6660
CHLOROGONIUM MAXIMUM 3255
CHLOROMYXUM 1079
CHLOROPHYCEAE 654 1177 1301 1309 1311 3249
CHLOROPHYTA 645 653 1310 1939 3844 3864 4008 4009 5463 6713
CHLOROSARCINACEAE 3865
CHLOROSARCINOPSIS MINOR 3865
CHOANEPHORA CIRCINANS 160
CHOANEPHORA CUCURBITARUM 4535
CHOANOEPHORA CUCURBITARUM 5772
CHONDRIA LITTORALIS 3821
CHONDROCOCCUS HORNEMANNI 3527
CHONDROPSIS SEMIVIRIDIS 3283
CHONDRUS CRISPUS 2716 6492
CHONOTRICHA 5229
CHORDA TOMENTOSA 5139
CHORDARIACEAE 3958
CHROMATIUM 4337
CHROMULINA 4724
CHROMULINA PLACENTULA 3861
CHROMULINA PUSILLA 3524
CHROOCOCCALES 3993 3994
CHROOCOCCIDIOPSIS GEITLER SP.N. 7096
CHROOCOCCUS 1586 3239 4933
CHROOCOCCUS COHAERENS 277
CHROOCOCCUS DISPERSUS 1303
CHROOCOCCUS TURGIDUS 6626
CHROOMONAS SALINA 4091
CHROOMONAS 2642
CHRYSAMOEBA 6933
CHRYSAMOEBA RADIANS 3856
CHRYSOCHAETE BRITANNICA 6521
CHRYSOCHROMULINA ACANTHA SP.N. 1203
CHRYSOCHROMULINA ALIFERA 1203
CHRYSOCHROMULINA BERGENENSIS SP.N. 4664
CHRYSOCHROMULINA BREVIFILUM 1203
CHRYSOCHROMULINA CHITON 4674
CHRYSOCHROMULINA EPIHIPPUM 1203
CHRYSOCHROMULINA ERICINA 4674
CHRYSOCHROMULINA FRAGILIS SP.N. 4664
CHRYSOCHROMULINA HERDLENSIS SP.N. 4664
CHRYSOCHROMULINA MACTRA 3857
CHRYSOCHROMULINA MANTONIAE SP.N. 4664
CHRYSOCHROMULINA MEGACYLINDRA 7097
CHRYSOCHROMULINA MEGACYLINDRA SP.N. 4664
CHRYSOCHROMULINA MICROCYLINDRA SP.N. 4664
CHRYSOCHROMULINA MICROCYLINDRICA 4674
CHRYSOCHROMULINA PARKEAE SP.N. 5220
CHRYSOCHROMULINA PRINGSHEMII 1203
CHRYSOCOCCUS CORDIFORMIS 3858
CHRYSOMYXA PIROLATA 503
CHRYSOMYXA WORONINII 503
CHRYSOPHYCEAE 1309 1390 3249
CHRYSOPHYTA 653 3846 3995 4009 6713
CHRYSOPYXIS PALUDOSA 3255
CHRYSOSPHAERELLA LONGISPINA 6426
CHRYSOSPORIUM 123
CHRYSOSPORIUM CF.MERDARIUM 3429
CHRYSOSPORIUM ERATINOPHILUM 4957
CHRYSOSPORIUM PRUINOSUM 6865
CHRYSOSPORIUM TROPICUM 4957
CHYRYSOMYXA RHODODENDRI 585
CHYTRIDIUM 3889
CHYTRIDIUM CORNUTUM 1217
CHYTRIOMYCES 1333 1510 4020
CHYTRIOMYCES AURFUS 2812
CHYTRIOMYCES HYALINUS 2812 5969
CIBICIDES 7191
CICINNOBOLUS 2033
CILIATA 1177 1351 1883 2557 3844 5300 5958 6393
CINETIDOMYXA CHATTONI 3875
CINETIDOMYXA NUCLEOFLAGELLATA 3875
CINTERMEDIUS 1233
CIONOTHRIX 7638
CIRCINELLA LINDERI 160
CIRCINELLA MUCOROIDES 1957
CIRCINELLA SIMPLEX 6555
CLADOCERA 688 693
CLADONIA 3558 5931
CLADONIA ALPESTRIS 102 531 682 1185
CLADONIA ARBUSCULA 1185 3284
CLADONIA CAESPITICIA 1337
CLADONIA CRISTATELLA 3284
CLADONIA FORMOSANA 599
CLADONIA RANGIFERINA 102 1185 4265
CLADONIA SUBPITYREA 599
CLADOPHORA 5182 7051 7149 7168
CLADOPHORA CF.CALLICOMA 4726
CLADOPHORA CRISPATA 7361
CLADOPHORA GLAUCESCENS 110
CLADOPHORA GLOMERATA 2530 3247 7168 7361
CLADOPHORA LAETEVIRENS 2658
CLADOPHORA RUPESTRIS 1838 5397
CLADOPHORA TRICHOTOMA 7688
CLADOPHOROPSIS 1175
CLADOSPORIUM 120 761 1544 1594 2029 2548 3103 3221 3645 3793 4498 4603 4887 4897 5000 5660 5783 5796 6137 6366 6467 6554 7002 7011 7188 7310
CLADOSPORIUM CARPOPHILUM 5725
CLADOSPORIUM CARRIONII 1728
CLADOSPORIUM CLADOSPORIOIDES 2681 4033
CLADOSPORIUM CLADOSPOROIDES 6888
CLADOSPORIUM CUCUMERINUM 5508 5512
CLADOSPORIUM FULVUM 509 5744 6055 6356
CLADOSPORIUM GOSSYPICOLA 7017
CLADOSPORIUM HERBARUM 1192 1327 1798 2396 2757 2785 3279 3501 4258 4287 4744 5122 5506 5772 5799 6055 6326 6509 7465 7684
CLADOSPORIUM PAEONIAE 7623
CLADOSPORIUM RESINAE 827 2783 3096 3472 4336 6419
CLADOSPORIUM TRICHOIDES 7545
CLADOSPORIUM WERNECKI 2891
CLADOTRICHA KOLTZOWII 6856
CLASTODERMA DEBARYANUM 14
CLASTODERMA PACHYPUS 14
CLATHROMORPHUM PARCUM 5823
CLATHROSPORA 1272
CLATHRULINA ELEGANS 5897
CLATHRUS OAHUENSIS 29
CLAUSSENOMYCES ATROVIRENS 1860
CLAUSSENOMYCES PRASINULUS 1860
CLAUSSENOMYCES PUSILLUS 1860
CLAVARIA ACUTA 6548
CLAVARIA FLACCIDA 6548
CLAVARIA MARICOLA 6453
CLAVARIA PUMANQUENSIS 6548
CLAVARIA TURGIDA 6548
CLAVARIA ZOLLINGERI 3374
CLAVARIA ZOLLINGERII 6548
CLAVARIADELPHUS BOREALIS 1871

AVARIADELPHUS FISTULOSUS 6453
AVARIADELPHUS LIGULUS 6453
AVARIADELPHUS MUCRONATUS 1871
AVARIADELPHUS SACHALINENSIS 6453
AVICEPS 161 269 1476 3625 3794 5415 5896 6425 7302
AVICEPS FUSIFORMIS 5941
AVICEPS MICROCEPHALA 5559
AVICEPS MICROCEPHALIS 3766
AVICEPS PASPALI 278 461 1479 1495 6631
AVICEPS PURPURA 4994
AVICEPS PURPUREA 461 1105 2719 3379 4817 4818 4819 4820 4821 5414 6329 6346 6631 7219 7398
AVICORONA 7069
AVICORONA CANDELABRUM 7069
AVICORONA COLENSOI 7069
AVICORONA CRISTATA 7069
AVICORONA DICHOTOMA 7069
AVICORONA DIVARICATA 7069
AVICORONA MAIREI 7069
AVICORONA PIPERATA 7069
AVICORONA PYXIDATA 7069
AVICORONA TAXOPHILA 7069
AVICORONA TUBA 7069
AVICORONA TURGIDA 7069
AVULINA CARTILAGINEA 6552
AVULINA HISPIDULOSA 6552
AVULINA LEVEILLEI 6552
AVULINA MUSSOORIENSIS 6552
AVULINOPSIS 6453
ITOCYBE DEALBATA 5758
ITOCYBE ILLUDENS 238
ITOCYBE MELLEA 3000 3757
ITOCYBE NEBULARIS 7370
ITOCYBE TABESCENS 2024
OROMYXUM TRUTTAE 1349
OSTERIUM 7162
OSTERIUM ACEROSUM 565 566
OSTERIUM COSTATOSPORUM 13
OSTERIUM DIDYMOTOCUM VAR,PUNCTULATUM 4718
OSTERIUM SIKQUA VAR.TURGIDUM VAR.N. 4718
OSTERIUM STRIGOSUM 7355
CCIDIA 1742 3731 5258 5551 7088
CCIDIA IMMITIS 2956
CCIDIOIDES 2193 4970 6828 7504
CCIDIOIDES IMMITIS 457 813 814 1044 1669 2188 2189 2209 2875 3697 4992 5533 5633 5644 5829 6235 6284 6829 7502 7503 7545
CCOIDEA QUERCICOLA 1949 2543
CCOLITHOPHORACEAE 1942
CCOLITHOPHORIDAE 2515 4723
CCOLITHUS HUXLEYI 1940 2691 2807 4012 4651 4723 7333
CCOLITHUS METEORI 1940
CCONEIS 3247 5267 6482
CCONEIS DIMINUTA 2430
CCONEIS PLACENTULA 3521
CCONEIS SCUTELLUM 5268
CCONEIS SEMIAPERTA 2514
CHLIOBOLUS CARBONUM 4945 6663
CHLIOBOLUS HETEROSTROPHUS 2154 7111 7671
CHLIOBOLUS LUNATA 4576
CHLIOBOLUS MIYABEANUS 222 1477 1999 2750
CHLIOBOLUS SATIVUS 100 378 963 3227 3803 4702 4935
CHLIOPHILUS ONCOMELANIAE 3197
DIOLUM 4719
DIOLUM POLYRHIZUM 4668
DIUM CAROLINIANUM SP,N. 5909
DIUM FRAGILE 5397 6486 7100 7688
DIUM FRAGILE SSP,TOMENTOSOIDES 6084
DIUM ISTHMOCLADUM 3821 7099
DIUM LATUM 6525
DIUM TAYLORI 7099
DIUM VERMILARA 5186

CODONARIA CISTELLULA 3194
CODONELLOPSIS SCHABI 3194
COELENTERATA 688
COELOMOMYCES 3698
COELOMOMYCES AFRICANUS 2942
COELOMOMYCES ASCARIFORMIS 2942
COELOMOMYCES BEIRNEI 4731
COELOMOMYCES CHIRONOMI VAR,CANADENSE 4731
COELOMOMYCES DODGEI 5651
COELOMOMYCES INDICUS 2942 6498
COELOMOMYCES OPIFEXI 1318
COELOMOMYCES PSOROPHORAE 5883
COELOMOMYCES PUNCTATUS 3890 5651 7578
COELOSPHAERIUM 3522
COELOSPHAERIUM NAEGELIANUM 1291
COELOTROPHA DURCHONI 638
COEMANSIA MOJAVENSIS 7063
COEMANSIA NANTAHALENSIS 1850 2451
COKEROMYCES POITRASII 160
COLEOSPORIUM 7638
COLEOSPORIUM ASTERUM 503
COLEOSPORIUM SENECIONIS 585 7637
COLEOSPORIUM VERNONIAE 503
COLEOTHRIX IRREGULARIS 3821
COLEPS HIRTUS 64 6393
COLEROA BRYOPHILA 6538
COLEROA CESERESI 6538
COLIOLUS VERSICOLOR 3374
COLLEMA 669 5525
COLLEMA PULPOSUM 5932
COLLEMA TENAX 5384
COLLETOGLOEUM FOUQUIERIAE SP.N. 7076
COLLETOTRICHUM ACUTATUM 4299
COLLETOTRICHUM CAPSICI 6135
COLLETOTRICHUM COCCODES 7654 7655
COLLETOTRICHUM COFFEANUM 4572 6466
COLLETOTRICHUM DEMATIUM VAR TRUNCATA 1778
COLLETOTRICHUM DERMATIUM 7655
COLLETOTRICHUM DESTRUCTIVUM 7655
COLLETOTRICHUM FALCATUM 914 1957 6952
COLLETOTRICHUM FRAGARIAE 7655 7656
COLLETOTRICHUM GLOEOSPORIOIDES 510 1550 2756 4573 4574 4575 6750 6927 6953 7655 7657
COLLETOTRICHUM GOSSYPII 3032 3775
COLLETOTRICHUM GRAMINICOLA 3033 5122
COLLETOTRICHUM LAGENARIUM 3776 5100 5480 6357
COLLETOTRICHUM LINDEMUTHIANUM 511 1001 2353 2354 4117 6358 6954
COLLETOTRICHUM MUSAE 7366
COLLETOTRICHUM PIPERATUM 6135
COLLETOTRICHUM 2500
COLLETOTRICHUM TRIFOLII 3673 3777 6894
COLLETOTRICHUM TRUNCATUM 4577
COLLODERMA OCULATUM 3142
COLLYBIA 4856 6600
COLLYBIA RIMUTAKA 1799
COLLYBIA VELUTIPES 3620 6019
COLPIDIA 7136
COLPIDIUM 951
COLPIDIUM CAMPYLUM 1901 1902 2056 6420
COLPIDIUM COLPODA 6620
COLPODA 3165 5884
COLPODA CUCULLUS 64
COLPODA MAUPASII 191 2402 3492 6125
COLPODA STEINII 218
COLUMNOCYSTIS AMBIGUA 3902
COMA CIRCULARIS 4686
COMATRICHA ACANTHODES 4323
COMATRICHA ANASTOMOSANS 6436
COMATRICHA FIMBRIATA 4323
COMATRICHA PERITRICHA 1846
CONCHOPHTHIRIUS CURTUS 64

CONCHOPHTHIRUS CURTUS 65 3943
CONDYLOSTOMA 64
CONDYLOSTOMA ARENARIUM 7199
CONGREGATOCARPUS 1212
CONIDIOBOLUS 6638
CONIDIOBOLUS EURYMITES 4299
CONIDIOBOLUS HETEROSPORUS 232
CONIOCHAETA MALACOTRICHA 3151
CONIOPHORA OLIVACEA 1190
CONIOPHORA PUTEANA 6226
CONIOSPORIUM RHIZOPHILUM 7298
CONIOTHECIUM 2613
CONIOTHYRIUM FRAGARIAE 5101
CONIOTHYRIUM FUCKELII 5101 6655
CONIOTHYRIUM JUNIPERI 3034
CONJUGATAE 2531 3249
CONJUGATOPHYCEAE 2435
CONOCOCCUM GRANIFORME 6389
CONOCYBE 5204 5758
CONOCYBE APPENDICULATA 1876
CONOCYBE FIBRILLOSIPES 1876
CONOCYBE FIMICOLA 1876
CONOCYBE INTERMEDIA VAR,BRUNNEA 1876
CONOCYBE OCHRACEA F,MACROSPORA 4734
CONOCYBE PINGUIS 1876
CONOCYBE STERCORARIA 1876
COPELANDIA 3156
COPRINUS 1232 4856 5758 5779
COPRINUS CINERATUS VAR,NUDISPORUS 6454
COPRINUS COMATUS 5377
COPRINUS CONGREGATUS 6501
COPRINUS DOMESTICUS 6019
COPRINUS INSIGNIS 6454
COPRINUS LAGOPUS 30 118 171 393 938 1404 1405 1984 2176 3220 4067 5206 5312 6098 6596 7486
COPRINUS MACRORHIZUS 2068 7385
COPRINUS MARTINII 6454
COPRINUS MICACEUS 3156
COPRINUS NARCOTICUS 6454
COPRINUS PICACEUS 6454
COPRINUS PLICATILIS 6600
COPRINUS RADIATUS 2497
COPRINUS STERCORARIUS 7070
COPRINUS STERQUILINUS 6454
COPRINUS VERRUCISPERMUS 6454
COPROBIA GRANULATA 3086
COPROTUS 1856
COPROTUS ALBIDUS 5833
COPROTUS AURORA 5833
COPROTUS AURORA COMB.N. 658
COPROTUS BREVIASCUS 5833
COPROTUS DEXTRINOIDEUS 5833
COPROTUS DISCULUS 5833
COPROTUS DUPLUS 5833
COPROTUS GLAUCELLUS 5833
COPROTUS LACTEUS 5833
COPROTUS LEUCOPOCILLUM 5833
COPROTUS MARGINATUS 5833
COPROTUS NIVEUS 5833
COPROTUS OCHRACEUS 1324
COPROTUS VICINUS 5833
CORALLINA PILULIFERA 3999
CORDYCEPS 6858
CORDYCEPS MILITARIS 3215
CORETHRON HISTRIX 1969
CORIOLUS 3278
CORIOLUS CONSORS 2025
CORIOLUS VERSICOLOR 3851
CORNICULARIA DIVERGENS 3846
COROLLOSPORA 1960 3280
COROLLOSPORA MARITIMA 1335
CORONASTRUM ANGLICUM 3887
CORTICIACEAE 4885
CORTICIUM BICOLOR 1164 6727
CORTICIUM REIDII SP.N. 7081
CORTICIUM ROLFSII 2617 3332
CORTICIUM SALMONICULOR 6927
CORTICIUM SOLANI 1777 6368
CORTICUM 7259
CORTICUM SALMONICOLOR 6340
CORTINARIA 3156
CORTINARIUS AFF.ACUTOSTRIATULUS 4734
CORTINARIUS BRUNEUS 4026
CORTINARIUS COLORATUS 4026
CORTINARIUS CYLINDRIPES 4026
CORTINARIUS EUSTRIATULUS 4734
CORTINARIUS PULCHRIFOLIUS 4026
CORTINARIUS PUMANQUENSIS 7183
CORTINARIUS STRIATULOIDES 4734
CORYLUS 6457
CORYNESPORA CASSIICOLA 5102
CORYNESPORA MELONIS 6359
CORYNESPORA PEDICELLATA 1267
CORYNOPHLEACEAE 3958
CORYOPHANUM LUTUM 5553
CORYTHION 6630
CORYTHION DUBIUM 1362
CORYTHION DUBIUM VAR.TERRICOLA 683
COSCINODISCUS 1295 5267
COSCINODISCUS ASTEROMPHALUS 1261 1262 126 5268
COSCINODISCUS GRANULOSUS 3
COSCINODISCUS LACUSTRIS 5268
COSCINODISCUS OCCLUSIRIDIS 7045
COSCINODISCUS SINICUS SP.N. 3125
COSMARIUM 4715
COSMARIUM ABBREVIATUM 7150
COSMARIUM BOTRYTIS 13
COSMARIUM CONTRACTUM 7150
COSMARIUM LUNDELLII 3442
COSMARIUM PYRAMIDATUM VAR.ROTUNDATUM 4718
COSTIA 5709
COTYLOTHIGMA 3196
CRASPEDODIDYMUM 3909
CRATERIUM LEUCOCEPHALUM 13
CRATERUIM PARAGUAYENSE 1849
CREOLOPHUS PERGAMENEUS 3374
CREOPHILUS ERYTHROCEPHALUS 3725
CRIBRARIA PAUCICOSTATA 1846
CRIBRARIA PERSOONII 1846
CRICOSPHAERA CARTERA 3393
CRICOSPHAERA CARTERAE 2431
CRICOSPHAERA ELONGATA 3393
CRINULA CALICIIFORMIS 1860
CRISTULARIELLA PYRAMIDALIS 4743 5103
CRITHIDIA 2951 6109 7474
CRITHIDIA ACANTHOCEPHALI 7214
CRITHIDIA FASCICULATA 216 1446 2131 4145 4860 5409 5850 6741
CRITHIDIA ONCOPELTI 1884 4147 4796 5850 7036
CRONARTIUM 6367
CRONARTIUM COLEOSPORIOIDES 503 523
CRONARTIUM COMANDRAE 503 523 3221 4551 47
CRONARTIUM COMPTONIAE 523
CRONARTIUM FLACCIDUM 7637
CRONARTIUM FUSIFORME 1118 5079 6928
CRONARTIUM QUERCUM 1118
CRONARTIUM RIBICOLA 375 504 523 2997 4552 5078
CRUCIBULUM CYATHIFORME 1872
CRUCISPORA 4029
CRUMENULOPSIS SORORIA 3036
CRYPTAZOON PROLIFERUM 5271
CRYPTOBIA BRANCHIALIS 1079
CRYPTOBIA LOMAKINI 1341
CRYPTOCLINE 2500
CRYPTOCLINE BETULARUM 1924
CRYPTOCOCCUS 227 547 842 2193 2241 2933 2375 4078 4453 4454 4455 4456 4970 6056 6260 6828 7220 7411
CRYPTOCOCCUS ALBIDUS 1167 1170 3170 6012
CRYPTOCOCCUS ALBIDUS VAR DIFFLUENS 7648

CRYPTOCOCCUS DIFFLUENS 1170 6012
CRYPTOCOCCUS DIMENNAE 1167
CRYPTOCOCCUS FAGI 512
CRYPTOCOCCUS LAURENTII 1167 6012
CRYPTOCOCCUS MACERANS 6012
CRYPTOCOCCUS NEOFORMANS 439 440 443 874 875 886 913 1026 1062 1063 1243 1635 1636 1688 1689 2102 2123 2208 2233 2279 2860 2892 3697 4452 4457 4858 4995 5533 5633 5656 5661 6234 6293 6699 6825 6829 6864 7316 7502 7545 7547
CRYPTOCOCCUS TERREUS 1167
CRYPTODERMA CERCIDIPHYLLUM 3374
CRYPTODIFFLUGIA 4630
CRYPTOMONADALES 1942
CRYPTOMONAS 1305 2527 3235 3246 3255 3347 4905 4933
CRYPTOMONAS EROSA 2527
CRYPTOPHYCEAE 1390 3249
CRYPTOPHYTA 3864 6713
CRYPTOSPORIUM LEPTOSTROMIFORME 6296
CRYPTOSPORIUM 2500
CRYPTOTHECODINIUM COHNII 2522 3120
CRYTOPHYCEAE 654
CTENICERA AENEA 41
CTENOMYCES SERRATUS 123
CTENOPHORA 688
CUCURBITARIA CARAGANAE 5887
CUCURBITARIA HALIMOBENDRI 5887
CUCURBITELLA MICROSTOMA SP.N. 1255
CUCURBITELLA NEOTROPICALIS SP.N. 1255
CUCURBITELLA OBTURATA VAR.N. 1255
CULCITALNA 3280
CUNNINGHAMELLA 3431
CUNNINGHAMELLA BERTHOLLETIAE 7413
CUNNINGHAMELLA ECHINULATA 5400 5772 6135 6326 6568
CUNNINGHAMELLA ELEGANS 160 5400 6568
CUNNINGHAMIA LANCEOLATA 6440
CURVULARIA 1594 1777 2989 3095 3431 4603 5541 6367
URVULARIA CLAVATA 4578
URVULARIA GENICULATA 2236 3035
URVULARIA INTERMEDIA 4585
URVULARIA INTERMEDIUS 5104
URVULARIA INTERSEMINATA 286
CURVULARIA LUNATA 286 1596 2685 2761 2878 4173 4560 4585 4620 4645 4892 5799 7658
URVULARIA LYCOPERSICI 6135 7374
URVULARIA PALLESCENS 349 1356 4645 6326
URVULARIA SENEGALENSIS 4576
URVULARIA SPICIFERA 516 2206
URVULARIA TUBERCULATA 1598 4575 6540
URVULARIA VERRUCIFORMIS VAR.MAGNETA 5767
UTLERIA CYLINDRICA 1209
UTLERIA MULTIFIDA 6434
YAMICHONA GEN.N. 1350
YAMICHONA MYSTICETI GEN.N.SP.N. 1350
YAMICHONA NODOSUS GEN.N.SP.N. 1350
YAMUS CETI 1350
YAMUS(PARACYAMUS)BOOPSIS 1350
YANIDIUM 7051
YANIDIUM CALDARIUM 108 2426 2581 3305 3368 4661 4761 4809 5231 5905 7348
YANODISCUS OCCIDENTALIS 1857
YANOPHORA PARADOXA 4662
YANOPHYCEAE 1177 1290 1309 1311 2531 5264 6517
YANOPHYTA 559 653 1291 1310 1835 1939 2709 2766 3249 3844 7345 7346 7347 7359
YATHOMONAS TRUNCATA 5850
YATHUS AFRICANUS 283 3415 6171
YATHUS BERKELEYANUS 1233 4738
CYATHUS BULLERI 1233 4738
CYATHUS CRASSIMURUS 1233 4738
CYATHUS EARLEI 4738
CYATHUS HELENAE 283 834 2026 3415 6062 6171
CYATHUS LIMBATUS 2026 4738
CYATHUS MICROSPORUS 1233 4738
CYATHUS OLLA 7183
CYATHUS PALLIDUS 1233 4738
CYATHUS PICTUS 1234
CYATHUS POEPPIGII 2026 4738
CYATHUS STERCOREUS 1234 4738 7183
CYATHUS STRIATUS 283 2026 3415 6171
CYATHUS TRIPLEX 4738
CYCLAMMINA 7191
CYCLIDIUM BERGERI 7199
CYCLOCOCCOLITHINA LEPTOPORA 5295
CYCLOCOCCOLITHUS 1940
CYCLOPHRYA 2510
CYCLOPHRYA KATHARINAE 2511
CYCLOPHRYA MAGNA 2511
CYCLOPOSTHIUM 4168
CYCLOPYXIS 678
CYCLOSPORA 4058
CYCLOTELLA 1195 2527 4724 4933 5267 6398 7166
CYCLOTELLA BODANICA 3570
CYCLOTELLA CASPIA 2691
CYCLOTELLA CRYPTICA 295 2808 3436
CYCLOTELLA GLOMERATA 5169
CYCLOTELLA KUTZINGIANA VAR.SINICA 3125
CYCLOTELLA MENEGHINIANA 295 3126 5263
CYCLOTELLA NANA 1175 2668 2691 2807 4651 5915
CYCLOTELLA STELLIGERA 4711 7165
CYCLOTELLANANA 4091
CYLINDROCARPON 2549 5443 5444
CYLINDROCARPON RADICICOLA 4814
CYLINDROCLADIUM 5105
CYLINDROCLADIUM COURATARIAE SP.N. 7077
CYLINDROCLADIUM CROTALARIAE 7683
CYLINDROCLADIUM FLORIDANUM 1134 3090 7683
CYLINDROCLADIUM ILLICICOLA 7683
CYLINDROCLADIUM PARVUM 6555 7683
CYLINDROCLADIUM QUINQUESEPTATUM 7683
CYLINDROCLADIUM SCOPARIUM 1134 7629 7683
CYLINDROCLADIUM THEAE 7683
CYLINDROCYSTIS BREBISSONII 2648
CYLINDROGLOEUM TRILLII 2500
CYLINDROSPERMUM 1503 5154 5364
CYLINDROSPERMUM MUSCICOLA 7038
CYLINDROSPORIUM CRASSIPES 3171
CYLINDROSPORIUM INFLATIPES 3171
CYLINDROSPORIUM LONGIPES 3171
CYLINDROTHECA FUSIFORMIS 6648
CYMADOTHEA TRIFOLII 1113
CYMATOPLEURA 5267 7162
CYMATOSIRA BELGICA 3
CYMBELLA 2530 3247 3253 3521 3567
CYMBELLA CISTULA 7039 7040
CYMBELLA CURSIFORMIS NOM.N. 7040
CYMBELLONITZCHIA DILUVIANA 3247
CYPHELIUM 600
CYRTOPHORINA 694
CYSTOCLONIUM 4764
CYSTOCLONIUM PURPOREUM 4090
CYSTOCLONIUM PURPUREUM 4765
CYSTOGOMPHUS 5208
CYSTOPHORA INTERMEDIA 3250
CYSTOSEIRA 1307 5186
CYSTOSEIRA ABIES-MARINA 3248
CYSTOSEIRA BARBATA 2084 5431
CYSTOSEIRA CF.BALEARICO 1306
CYSTOSEIRA MEDITERRANEA 1306
CYSTOSEIRA SEDOIDES 1306
CYSTOSEIRA STRICTA 1306 3358
CYTOSPORA 3339 3387

CYTOSPORA CHRYSOSPERMA 6341
CYTOSPORA CINCTA 6172 6360
CYTOSPORA RHIZOPHORAE SP.N. 3280
CYTOSPORINA 7116
CYTTARIA BERTEROI 6539
CYTTARIA DARWINII 6539
CYTTARIA ESPINOSAE 6539
CYTTARIA EXIGUA SP.N. 6539
CYTTARIA HARIOTI 6539
CYTTARIA HOOKERI 6539
CYTTARIA JOHOWII 6539
CYTTAROCYLIS BRANDTI 3194
CYTTAROCYLIS CASSIS 3194

DACTYLELLA DRECHSLERII 5843
DACTYLIOSOLEN MEDITERRANEUS 4723
DACTYLIOSOLENANTARTICA 6005
DACTYLIUM 2033
DACTYLOMYCES CRUSTACEUS 2779
DAPHNIA 2528
DAPHNIA MAGNA 568
DAPHNIA PARVULA 4009
DAPHNIA PULEX 4009
DARLUCA 2033
DARLUCA FILUM 6342
DASYSCYPHUS DEFLEXUS SP.N. 2458
DASYTRICHA 4865
DASYTRICHA RUMINANTIUM 492 4750
DASYTRICHIA RUMINATIUM 1352
DEBARYOMYCES 447 586 1170 2755 6177 7011
DEBARYOMYCES HANSENII 2842 6012 6721 7297
DEBARYOMYCES FABRYI 6693
DEBARYOMYCES KLOECKERI 1435 6693
DEBARYOMYCES NICOTIANAE 6693
DEBARYOMYCES VINI 1950
DELACROIXIA CORONATA 6438
DELASTRIA 23
DELESSARIA SP. 11
DELESSERIOPSIS ELEGANS 12
DELISEA FIMBRIATA 573
DELITSCHIA BISPORA 1226
DELTOTRICHONYMPHA 6473
DEMATIA 6383
DEMATIACEAE 4885
DENDRODOCHIUM TOXICUM 461
DENDRYPHIELLA 1960
DENDRYPHIELLA SALINA 6555
DENTINUM 1874 2463
DERBESIA NEGLECTA 7098
DERMATOCARPON FLUVIATILE 3284
DERMATOCARPON HEPATICUM 2471
DERMATOPHILUS CONGOLENSIS 1029
DERMATOSORUS ERIOCAULI 6462
DERMOCYBE SANGUINEA 3416
DERMOCYBE SEMISANGUINEA 3416
DERMONEMA FRAPPIERI 612
DESMARESTIA 2526
DESMIDACEAE 1177
DESMIDIALES 1302
DESMOGONIUM 5267
DEUTEROPHOMA TRACHEIPHILA 1135
DEVESOVINA DUBIA 5221
DIACHEA LEUCOPODIA 13
DIAPHANOECA PEDICELLATA 7085
DIAPORTHE CITRI 5836
DIAPORTHE PHASEOLORUM VAR.SOJAE 7631
DIAPORTHE PHASEOLUM VAR.SOJAE 5096
DIATOMA 3247
DIATOMA ELONGATUM 4010 6483
DIATOMA HIEMALE 3253
DIATOMA TENUE 5169
DIATOMA VULGARE 6483
DIATOMACEA 2531 6520 7456
DIATOMACEAE 5761 5907 6994 7146 7147 7350 7426
DIATOMEAE 1301 3249 3251 4650 4723
DIATOMOPHYCEAE 1290
DIBOTRYON MORBOSUM 4914
DICHLAENA PTERODONTIS SP.N. 7699
DICHOMERA GEMMICOLA 7078
DICHROMENA 1214
DICHTYNCHUS MONOSPORUS 2550
DICRATERIA INORNATA 1546
DICTYCLIUM CANCELLATUM 13
DICTYOCHA 5295
DICTYOCOCCUS CINNABARINUS 5567
DICTYOPTERIS 5820
DICTYOPTERIS MEMBRANACEA 3400
DICTYOPTERIS UNDULATA 7104
DICTYOPTERIS ZONARIOIDES 3405
DICTYOSIPHON MACOUNII 6536
DICTYOSPHAERIUM PULCHELLUM 6712
DICTYOSTELIUM 5903
DICTYOSTELIUM DEMINUTIVUM 4614
DICTYOSTELIUM DISCOIDEUM 138 156 300 385 551 615 696 928 1452 1453 1565 1911 1946 1972 1973 2008 2020 2586 2773 2823 3143 3144 3309 3310 3311 3312 3313 3960 4337 4374 4614 4700 4766 4810 4944 5240 5307 5308 5324 5371 5465 5828 5881 5941 5966 5967 6033 6147 6565 6566 6583 7681
DICTYOSTELIUM GIGANTEUM 1721
DICTYOSTELIUM LACTEUM 4614 7681
DICTYOSTELIUM MINUTUM 4614 5371 7681
DICTYOSTELIUM MUCOROIDES 1721 4614 6376 7681
DICTYOSTELIUM POLYCEPHALUM 7681
DICTYOSTELIUM PURPUREUM 5371 7681
DICTYOSTELIUM ROSARIUM 4614 5371
DICTYOTA 5820
DICTYOTA DICHOTOMA 299 1507 2446 3821
DICTYOTA DIVARICATA 7099
DICTYUCHUS SP F-2 7282
DICTYURUS MALDIVENSIS 6672
DIDASCALUS THORNTONI 3559 7421
DIDERMA CRUSTACEUM 13
DIDINIUM 1905
DIDINIUM NASUTUM 64 1903 2558 5260
DIDYMIUM IRIDIS 300 2826
DIDYMIUM MINUS 13
DIDYMIUM NIGRIPES 7061
DIDYMIUM OVOIDEUM 7061
DIDYMOCLADIUM 2033
DIDYMOSPHAERIA 3280
DIDYMOSPHAERIA EPIDERMIDIS 5887
DIDYMOSTILBE KAMATII SP.N. 4030
DIEHLIOMYCES MICROSPORUS 5779
DIENTAMOEBA 2853
DIENTAMOEBA FRAGILIS 2256 6275 6796 6797 7562 7563
DIFFLUGIA 678 3521 4630 5298
DIFFLUGIA BICRURIS 1343
DIFFLUGIA FINSTERTALIENSIS 679
DIFFLUGIA LEBES VAR.BRETSCHKOI VAR.N. 679
DIFFLUGIA LOBOSTOMA VAR.MULTIDENTATA 1255
DIFFLUGIA MAMMELLA SP.N. 679
DIFFLUGIA MULTIDENTATA COMB.N. 1255
DIFFLUGIA PLEUSTONICA SP.N. 1255
DIFFLUGIA SARISSA 1343
DIFFLUGIA VENTRICOSA FMA.RETICAULIS F.N. 1255
DIFFLUGIELLA 4630 5223
DILEPTUS 1905
DILEPTUS ANSER 64
DILEPTUS CYGNUS 7136
DIMARGARIS BACILLISPORA 7063
DIMARGARIS CRISTALLIGENA 7063
DIMEROMYCES ISOPTERUS SP.N. 5286
DIMEROMYCES LELEUPI 6543
DINEMA 4720

DINEMASPORIUM CANADENSE 40
DINOBRYON 1204 2527 4711 4933
DINOFLAGELLATA 1883 2525 7426
DINOFLAGELLATAE 1942
DINOPHYCEAE 654 1308 1390
DINOPHYSIS NORVEGICA 1295
DIOIMYCES BOURNIERI 6543
DIOPHRYS SCUTUM 7199
DIOPHRYS TETRAMONUCLLATA 6561
DIPLOCARPON ROSAE 4579
DIPLOCHLORELLA AMPHIMELAEANA 1917
DIPLOCHYTRIDIUM 3889
DIPLODIA 3101 3830
DIPLODIA GOSSYPINA 1136 7659
DIPLODIA MAYDIS 3836
DIPLODIA NATALENSIS 3466 3467 3468 4575 5513 6609 6955 7660
DIPLODIA PINEA 3036 6556
DIPLODIA ZEAE 327 6369 7623
DIPLODINIUM 1904 4865 5938
DIPLODINIUM DENTATUM 1904
DIPLONEIS 3 5267
DIPLONEIS BOMBUS 7059
DIPLONEIS ELLIPTICA 3247
DIPLONEIS SPLENDIDA 7059
DIPLOPLASTRON AFFINE 492
DIPLOSPORA BELLI 2504
DIPLOSPORA BIGEMIA 2506
DIPLOTHECA COSTATA 7085
DIPODASCUS AGGREGATUS 1588
DIPSACOMYCES ACUMINOSPORUS 6228
DISCINA BRUNNEA 2456
DISCINA FASTIGIATA 2456
DISCIOTIS VENOSA 658
DISCOASTER MULTIRADIATUS 1562
DISCOGLOEUM VERONICAE 2500
DISCOMYCETES 1324
DISCOPHRYA BUCKEI 2511
DISCOPHRYA COLLINI 2511
DISCORBIDAE 4048
DISCOSIELLA CYLINDROSPORA SP.N. 6469
DISCOSIELLINA LONGICILIATA SP.N. 6469
DISCULA PINICOLA 2626
DISPIRA CORNUTA 7063
DISTEPHANUS 5295
DISTEPHANUS SPECULUM VAR,SEPTENARIUS 1295
DITRYPANOCYSTIS 1900
DITYLUM BRIGHTWELLI 2809
DOLICHOASCUS 6871
DOLIOMYCES 3910
DORATOMYCES 97
DORATOMYCES NANUS 2752
DORATOMYCES PURPUREOFUSCUS 636
DOTHIORELLA RIBIS 3037
DOTHIORELLA ULMI 7623
DOTHISTROMA PINI 3038
DRAPARNALDIA GLOMERATA 6050
DRECHSLERA 7005
DRECHSLERA AUSTRALIENSE 1598
DRECHSLERA HAWAIILENSIS 4576
DRECHSLERA PEDICELLATA 336
DRECHSLERA ROSTRATA 4576
DRECHSLERA TERES 5080
DRECHSLERA TETRAMERA 4585
DRESCHSLERA ERYTHROSPILA 7066
DROSOPHYLLUM LUSITANICUM 4848
DUNALIELLA 859 2692 3526 6486
DUNALIELLA EUCHLORA 6398
DUNALIELLA PARVA 4196 4197
DUNALIELLA PRIMOLECTA 1175
DUNALIELLA SALINA 2566
DUNALIELLA TERTIOLECTA 273 1546 3443 3497 4152 4153 4651 4797 4837 4883
DURANDIELLA SALICIS 1860
DYSTERIA SCUTELLUM SP.N. 5862
ECCILIA CANCRINA 5758
ECCRINIDUS FLEXILIS 3891
ECHINOSTELIUM 14
ECHINOSTELIUM LUNATUM 1847 5189
ECHINOSTELIUM MINUTUM 1848 4323
ECKLONIA CAVA 1828
ECKLONIA STOLONIFERA 110
ECLUSIA MOUTYI 4044
ECTOCARPUS 3881
ECTOCARPUS DRAPARNALDIOIDES 5869
ECTOCARPUS FASCICULATUS 3406
ECTOCARPUS FASICULATUS VAR,REFRACTUS 5869
ECTOCARPUS FLOCCULIFORMIS 560
ECTOCARPUS MUCRONATUS 560
ECTOCARPUS OVIGER 560
ECTOCARPUS PARVUS 560
ECTOCARPUS SILICULOSUS 5432 5869
ECTOCARPUS SOCIALIS 560
ECTOCHAETE 3869
EHRLICHIA CANIS 4478
EIMERIA 685 1079 1962 2294 2297 2298 2505 2506 2508 4350 5059 5067 5488 5551
EIMERIA ACERVULINA 424 476 477 1080 1081 2139 2957 3726 3727 4308 4430 4803 5589 5685 5686 6884 6885
EIMERIA ADENOEIDES 604
EIMERIA AEROMYSIS 57
EIMERIA ALABAMENSIS 2138 5254
EIMERIA AMBASSI 6310
EIMERIA AMBYSTOMAE 6558
EIMERIA ARLOINGI 478
EIMERIA AUBUMENSIS 5255
EIMERIA AUBURNENSIS 605 3231 5255
EIMERIA BARRETTI SP,N. 3937
EIMERIA BOVIS 605 5255 6888
EIMERIA BRUNETTI 423 424 476 1558 3727 5057 6884
EIMERIA BUKIDNONENSIS 5225
EIMERIA CALLOSCIURI 5935
EIMERIA CATUBRINA SP,N. 3724
EIMERIA CERDONIS 1086
EIMERIA CERTHIIDARUM 6559
EIMERIA CHINCHILLAE 479 2294
EIMERIA CONFUSA 1962 4052
EIMERIA CONTORTA 639
EIMERIA CRANDALLIS 6162
EIMERIA CYPRINORUM 6310
EIMERIA DEBLIECKI 1086
EIMERIA EDWARDSI SP,N. 1892
EIMERIA ELLIPSOIDALIS 5255
EIMERIA FALCIFORMIS 603 605 639 3231 6476
EIMERIA FAVREI 478
EIMERIA HIPPURI 57
EIMERIA HYLOPETIS 57
EIMERIA INTRICATA 478
EIMERIA IRRESIDUA 5153
EIMERIA JAPALURIS SP,N. 1348
EIMERIA JAPONICIS SP,N. 1348
EIMERIA KINSELLAI 59
EIMERIA KURODENSIS 5225
EIMERIA LANCASTERENSIS 4052
EIMERIA LANDERSI 58
EIMERIA LEUCKARTI 684 4514
EIMERIA LIPURA 58
EIMERIA MAGNA 2505 5153
EIMERIA MALAYENSIS 57
EIMERIA MARSICA SP,N. 3728
EIMERIA MAXIMA 423 424 476 477 605 2139 2506 3231 3727 5057 5589 5898 6884
EIMERIA MELEAGRIMITIS 1559
EIMERIA MICHIKOA SP,N. 1348
EIMERIA MICROCAPI SP,N. 6558
EIMERIA MITIS 2958 3731 5589
EIMERIA MIVATI 424 477 480 2139 3727 4517 5485 6884
EIMERIA MIYAIRII 5935
EIMERIA MUNDARAGI 5225
EIMERIA MUULI SP.N. 5935
EIMERIA NECATRIX 424 476 1083 2139 2507 2747 3727 3729 3932 4803 5058 5589 6876 6884

EIMERIA NEITZI 481
EIMERIA NIESCHULZI 4515 5935
EIMERIA NINAKOHL-YAKIMOVAE 478
EIMERIA NINAKOHLYAKIMOVAE 3935
EIMERIA NOTATI 57
EIMERIA ONTARIOENSIS SP.N. 1962
EIMERIA PACHYLEPYRON SP.N. 4516
EIMERIA PAHANGI 57
EIMERIA PALLASI SP.N. 3937
EIMERIA PALUSTRIS 3934
EIMERIA PANDA 3724
EIMERIA PANDEROSA 3724
EIMERIA PARVA 478
EIMERIA PATAVINA SP.N. 3724
EIMERIA PELLITA 5225
EIMERIA PELLOPLEURIS SP.N. 1348
EIMERIA PERFORANS 605 3231 5153
EIMERIA PHASIANI 7596
EIMERIA PRAECOX 2139 5589
EIMERIA PRAGENSIS 6476
EIMERIA PROCYONIS SP.N. 6312
EIMERIA PSITTACINA 6559
EIMERIA PTILOCERCI SP.N. 5935
EIMERIA ROTUNDA 3726
EIMERIA ROUNTREEI SP.N. 1348
EIMERIA SABANI SP.N. 1892
EIMERIA SAMI SP.N. 1348
EIMERIA SCABRA 1086
EIMERIA SCHAMCHORICA 3232
EIMERIA SEPARATA 2295 4515 5935
EIMERIA SHUBINI SP.N. 3937
EIMERIA SMITHI 5225
EIMERIA SPLENI 3936
EIMERIA STIEDAE 605 639 3730 3935 5857
6511 6886 7132
EIMERIA SUBEPITHELIALIS 3936
EIMERIA SUBSPHERICA 5255
EIMERIA SUIS 1086
EIMERIA SUPERBA 3726
EIMERIA SURIFER SP.N. 1892
EIMERIA TELFORDI SP.N. 1348
EIMERIA TENELLA 426 477 604 605 639 953
1082 1558 1665 2139 2957 2958 2959
3231 3727 3731 3732 3985 4349 4517
4899 4981 5226 5256 5316 5485 5589
5603 5687 6741 6884 6887 7132 7422
7597 7598
EIMERIA THIANETHI 5225
EIMERIA TIKUSI SP.N. 1892
EIMERIA TRAGULI 6311
EIMERIA TUPAIAE SP.N. 5935
EIMERIA URODELA SP.N. 6558
EIMERIA UTIDAS 5153
EIMERIA UZURA SP.N. 2556
EIMERIA VARANI SP.N. 5936
EIMERIA VERMIFORMIS 2296 5257
EIMERIA WORLEYI SP.N. 3937
EIMERIA WYOMINGENSIS 5225
EIMERIA ZURNII 6888
EIMERICELLA 6326
EISENIA ARBOREA 6416
EISENIA BICYCLIS 222 1828
ELACHISTA LUBRICA 72
ELACHISTA STELLARIS 7103
ELATERODISCUS APPENDICULATUS GEN.SP.N. 5812
ELEUTHERASCUS LECTARDII 1855
ELLIPSOIDION ACUMINATUM 5 7041
ELSINOE 3413
EMBADOMAS INTESTINALIS TRICHOMONAS VAGINALIS
676
EMBRYCOLA 4720
EMERICELLA 3892
EMERICELLA NIDULANS 5772
EMERICELLA NIDULANS VAR.ECHINULATA 5146
EMERICELLA RUGULOSA 5772
EMERICELLA VARIECOLOR 5799
EMERICELLOPSIS STOLKIAE SP.N. 1858
EMILIANA HUXLEYI 5295 7462
EMMONSIA BRASILIENSIS 6865
EMMONSIA CIFERRINA 6865
EMMONSIA CRESCENS 1690 1989 2627 2893 4400
4707 6829
EMMONSIELLA CAPSULATA 7079
ENCEPHALITOZOON CUNICULI 1743 1893 7599
ENDEMOSARCA HYPSALYXIS 60 3145 5884
ENDEMOSARCA UBATUBENSIS 60 3145
ENDIPLODINIUM AFFINE 1352
ENDOCARPON 5930
ENDOCRONARTIUM HARKNESSII 503 523 3276
ENDOGONE 3082 3265 3279 3452 4614 6389
ENDOGONE MOSSEAE 6377
ENDOLIMAX 2853 5067 6221
ENDOLIMAX NANA 415 4930
ENDOMYCES 1170
ENDOMYCES CAPSULARIS 6012
ENDOMYCES MAGNUSII 3503 3535
ENDOMYCOPSIS 44 1950 3536 4359 7220
ENDOMYCOPSIS CAPSULARIS 4078
ENDOMYCOPSIS CHODATI 5776
ENDOMYCOPSIS CHODATII 3840
ENDOMYCOPSIS FIBULIGER 3536 5776
ENDOMYCOPSIS JAVANENSIS 1859 3536 4078
ENDOMYCOPSIS LIPOLYTICA 3536 4358
ENDOPHYLLUM 7638
ENDORINA 7360
ENDOTHIA GYROSA 6949
ENDOTHIA PARASITICA 1513 2121 3384 4097
5499 5973 7623
ENERTHENEMA 14
ENOPLOPASTRON TRILORICATUM 4750
ENTAMOEBA 455 1050 2853 3616 3617 5067
6787 7502
ENTAMOEBA COLI 2798 4415 4930
ENTAMOEBA CRESCENS 3603
ENTAMOEBA DYSENTERIAE 414 3475
ENTAMOEBA HARTMANNI 415 4345 6837
ENTAMOEBA HISTOLYTICA 343 404 415 456 554
952 989 1040 1041 1042 1373 1581
1632 1648 1662 1708 2005 2055 2136
2137 2250 2256 2257 2258 2288 2576
2641 2746 2799 2800 2852 2867 2868
2913 2914 2915 2916 2918 2919 2920
2921 2922 2923 2924 2925 2926 2955
3184 3185 3341 3342 3476 3510 3511
3604 3605 3606 3607 3614 3615 361
3658 3659 3660 3661 3662 3663 366
3665 3666 3667 3668 3669 3670 3671
3672 3715 3716 3717 3928 4266 430
4345 4346 4409 4410 4415 4427 4428
4473 4474 4929 4930 4932 4978 497
5030 5031 5484 5550 5640 5641 5642
5643 5680 6022 6276 6277 6741 6796
6797 6807 6836 6837 6838 6855 7421
7474 7564 7565
ENTAMOEBA INVADENS 1632 3982 4266 4347 442
4691 5452 5550 5666 6741 6796 679
7421
ENTAMOEBA MOSHKOVSKII 1373 4427 5550
6807 7421
ENTAMOEBA NANA 4345 4415
ENTAMOEBA NEZUMIA 3718
ENTAMOEBA POLECKI 6225
ENTEROMONAS 2853
ENTEROMORPHA 5522 7266
ENTEROMORPHA CLATHRATA 2521
ENTEROMORPHA COMPRESSA 2521 7022
ENTEROMORPHA FLEXUOSA 2521
ENTEROMORPHA GUJARATENSIS 2521
ENTEROMORPHA INTERMEDIA 2521
ENTEROMORPHA INTESTINALIS 2521 4203 5397
7019

ENTEROMORPHA LINGULATA 2521
ENTEROMORPHA LINZA BICORNUTA 2521
ENTEROMORPHA LINZA LINZA 2521
ENTEROMORPHA OVATA 2521
ENTEROMORPHA PLUMOSA 2521
ENTEROMORPHA PROLIFERA 2521
ENTEROMORPHA PROLIFERA V.TUBULOSA 4236
ENTEROMORPHA TUBULOSA 2521
ENTOCLADIA PERFORANS 4668 4719
ENTOCLADIA VIRIDIS 6534
ENTODINIOMORPHA 367
ENTODINIUM 2737 4750 4865 5938
ENTODINIUM BURSA 492
ENTODINIUM CAUDATUM 66 67 1352 7475
ENTODINIUM SIMPLEX 1352 5567
ENTODINIUM VORAX 1352
ENTOLOMA PRUNULOIDES 7071
ENTOMOPHTHORA 4993 7108
ENTOMOPHTHORA APHIDIS 2275 6285
ENTOMOPHTHORA CORONATA 2936 3689 5039 5663 7439
ENTOMOPHTHORA DESTRUENS 301 3689
ENTOMOPHTHORA FLORIDANA 2937
ENTOMOPHTHORA FRESENII 121
ENTOMOPHTHORA GRYLLI 3688
ENTOMOPHTHORA PLANCHONIANA 2275 6285
ENTOMOPHTHORA THAXTERIANA 301 2275 3209 3689
ENTOMOPHTHORA VIRULENTA 301 3689
ENTOPHLYCTIS 1510
ENTOPHLYCTIS CONFERVAE-GLOMERATAE 3146 3210
ENTORRHIZA 1879
ENTYLOMA 1879
EOLITHOSPORELLA 5273
EPENARDIA GEN.N. 68
EPENARDIA MYRIOPHYLLI COMB.N. 68
EPERYTHROZOON OVIS 1744
EPERYTHROZOON SUIS 6478
EPHEBE LANATA 5178
EPICAVUS ARAEOCERI 1894 6308
EPICOCCUM 521 3431
EPICOCCUM COCOS 1957
EPICOCCUM NIGRUM 588 1327 3279 4888 5106 5145 5768 5769 6675
EPICOCCUM PURPURASCENS 119
EPIDERMOPHYTON 916 1244 2754 3646 7411 7417
EPIDERMOPHYTON FLOCCOSSUM 6701
EPIDERMOPHYTON FLOCCOSUM 357 445 1693 1694 1728 2106 2192 2194 2195 3599 4304 4402 4887 5407 5595 6155 6266
EPIDERMOPHYTON FLOCCUSUM 5665
EPIDERMOPHYTON INGUINALE 7494
EPIDINIUM 4750 5938
EPITHELE 1873 3903
EPITHEMIA 3247 5267
EPITHEMIA ARGUS 7168
EPONIDES 7191
EQUISETUM VARIEGATUM 3957
EREMOPLASTRON 4750
EREMOSPHAERA VIRIDIS 1839 2647
EREMOTHECIUM ASHBYI 6664
EREMOTHECIUM ASHBYII 162 706 6119 6184 7303
ERISYPHE GRAMINIS 6330
ERWINIA CAROTOVORA 1755 3790 5941 6368
ERWINIA SP. 3107
ERYSIPHACEAE 1320 3266 3794 5719 5720 5729 5734 5736
ERYSIPHALES 3759
ERYSIPHE 4603 5196
ERYSIPHE CICHORACEARUM 1765 2994 5287 5740 6629 6924 7339
ERYSIPHE GRAMINIS 501 1106 1108 1122 1623 1757 1758 3157 3758 4915 5080 6331 6332 6368 6629 6906 6907 7112 7113
ERYSIPHE GRAMINIS F.SP.HORDEI 1107 2995 5737 6333 6908 6909
ERYSIPHE GRAMINIS F.SP.TRITICI 577 5081 5718
ERYSIPHE GRAMINIS HORDEI 6130
ERYSIPHE POLYPGONI 7115
ERYSIPHE TRINA 6925 7113
ERYTHROCLADIA 3884
ERYTHROTRICHIA 3884
ERYTHROTRICHIA NIGRESCENS SP.N. 3884
EUASTRUM SINUOSUM VAR.PARVUM VAR.N. 4718
EUCAMPIA ZOODIACUS 4005 4006 6630
EUCHEUMA MURICATUM 4205
EUCHEUMA SPINOSUM 4205
EUCOCCIDIUM DINOPHILI 605
EUDARLUCA CARICIS 6342
EUDIPLODINIUMMAGGII 4750
EUDORINA ELEGANS 2083
EUGLENA 790 2057 3346 3570 3824 3848 4394 4794 4939 5427 5807 6087 6426 6692 6711
EUGLENA ACUS 3131 5270
EUGLENA GRACILIS 137 154 155 274 275 316 374 418 699 700 701 1266 1359 1360 1506 2039 2093 2481 2568 2585 2670 2770 3293 3370 3404 3437 3496 3497 3526 3872 3873 4042 4089 4166 4197 4199 4242 4243 4372 4698 4753 4808 4847 4906 4937 5369 5428 5429 5498 5556 5963 5964 6041 6071 6086 6146 6158 6433 6564 6649 6742 7218 7356
EUGLENA GRACILIS STR.G 5965
EUGLENA GRACILIS VAR.BACILLARIS 2567 5235 6710
EUGLENA GRANULATA 4763
EUGLENA MUTABILIS 4652
EUGLENA OXYURIS 3131 5270
EUGLENA POLYMORPHA 5270
EUGLENA PROXIMA 3131
EUGLENA SABULORUM SP.N. 4671
EUGLENA TRIPTERIS 3131
EUGLENAPHYTA 3844
EUGLENOPHYCEAE 654
EUGLENOPHYTA 653 2531 4009
EUGLYPHA 4630 6420
EUGLYPHA CILIATA VAR.ALPESTRIS VAR.N. 683
EUGLYPHA LAEVIS 1342
EUGLYPHA ROTUNDA 1342
EUGLYPHELLA 4630
EUGLYPHELLA DELICATULA 683
EUGOMONTIA SACCULATA 4668
EUNOTIA 2517 3253
EUNOTIA EXIGUA 4652
EUNOTIA LUNARIS 3126
EUPENICILLIUM 3892
EUPENICILLIUM VERMICULATUM COMB.N. 7077
EUPHAUSIIDAE 688
EUPHORBIA PEPLUS 1920
EUPLOTES CANNUS 6561
EUPLOTES CARINATUS 64
EUPLOTES EURYSTOMUS 107
EUPLOTES WOODRUFFI 107
EUPLOTES ZENKEWITCHI 7199
EURIOTIA 5267
EUROPHIUM CLAVIGERUM 1321 6720
EUROTIUM 3892
EUROTIUM AMSTELODAMI 5772
EURYTEMORA HERDMANI 4341
EUTOMOPHTHORA 6438
EUTOPHLYCTIS 116
EUTREPTIELLA 4042
EUTREPTIELLA PASCHERI 1299
EUTYPA ARMENIACAE 2325
EUTYPELLA PARASITICA 79 7114
EVERNIA PRUNASTRI 2053 4657
EXCENTROSPHAERA VIRIDIS 6995
EXOBASIDIUM VACCINII 6037
EXOBASIDIUM VEXANS 1119
EXOSCHIZON 1900
EXUVIAELLA 4042
EXUVIAELLA VAGINULA 4725

FABREA SALINA 3987
FARINOCYSTIS TRIBOLII 5858
FARYSIA . 1879
FAVELLA MARKUZOVSZKYI 3194
FAVOLUS 3278
FAVOLUS ARCULARIUS 3971
FELDMANNIA HEMISPHERICA 560
FILINIA LONGISETA 4263
FISCHERA TENUIS 3123
FISCHERELLA AMBIGUA 2427
FISCHERELLA MUCICOLA 4694 4695
FISCHERELLA MUSCIOLA 5178
FISTULINA RADICATA 3902
FLAMMULINA VELUTIPES 5561
FLORILUS GRATELOUPII 6421
FOMES 659 4656 5896
FOMES ANNOSUS 90 263 376 1163 1762 2117 2118 3001 3420 4160 4855 5891 6367 6389 6929 6996
FOMES BADIUS 6627
FOMES CAJANDERI 91 3158
FOMES DURISSIMUS 3572
FOMES FASTUOSUS 3572
FOMES FOMENTARIUS 3420
FOMES IGNARIUS 5438 6627
FOMES NOXIUS 1777
FOMES OCCIDENTALIS 5207
FOMES ROBINIAE 3417
FOMES ROSEUS 91
FOMES SALICINUS 3851
FOMES SENEX 3572
FOMES TRIVIALIS 3164
FOMITOPSIS PINICOLA 5374 6597
FORAMINIFERA 1364 1365 2555 3254 3289 4045 4046 5934 7192 7193 7194 7344 7455 7456 7686
FRAGARIA CHILOENSIS 5072
FRAGARIA VIRGINIANA 5072
FRAGILARIA 2527 3247 4711 5267 5282
FRAGILARIA CAPACUINA 3570
FRAGILARIA CROTONENSIS 3521 5454
FRAGILARIA PINNATA 5524
FRAGILARIA STRIATULA VAR,CALIFORNICA 2516
FRAGILARIA VIRESCENS 3521
FRAGOSPHAERIA PURPUREA 4022
FRASERIA OLEAE 5831
FREMYELLA DIPLOSIPHON 787 1586
FRONTONIA LEUCAS 64 1353 7392
FRUSTULA 5267
FUCUS 3882 7046 7266
FUCUS DISTICHUS 347 5387
FUCUS EDENTATUS 347
FUCUS EVANESCENS 5398
FUCUS INFLATUS 7463
FUCUS SERRATUS 347 3957 5432 5523 7463
FUCUS VESICULOSUS 4 347 2671 4200 5432 5912 7022 7463
FUCUS VIRSOIDES 3447
FULIGO CINEREA 7061
FULIGO SEPTICA 7061
FURSENKOINA PONTONI 6421
FURSENKOINA SPINICOSTATA 6421
FUSARIUM 119 211 260 449 513 521 530 761 907 1141 1142 1166 1594 1775 1798 2029 2033 2148 2544 2549 2761 2785 2786 2791 3040 3049 3050 3051 3052 3110 3111 3281 3384 3431 3490 3491 3629 3780 3789 3810 3911 4184 4438 4534 4560 4619 4887 4919 5111 5131 5156 5396 5541 5545 5599 5748 5757 6064 6326 6382 6384 6389 6949 6963 6997 7002 7005 7011 7248 7259 7401 7413 7417 7631 7666 7708
FUSARIUM AQUAEDUCTUUM 7246
FUSARIUM AVENACEUM 3698 4620 5106 5253 6959 7661
FUSARIUM BULBIGENUM 1192
FUSARIUM CEREALIS 3809
FUSARIUM COCCIDICOLA 5745
FUSARIUM COERULEUM 5759
FUSARIUM CUBENSE 211
FUSARIUM CULMORUM 302 1470 1779 2685 2943 3977 5745 6959 7471
FUSARIUM EQUISETI 4585 5745 6641
FUSARIUM GRAMINEARUM 177 461 467 1779 2943 4499 4850 6956
FUSARIUM LATERITIUM 5745 6641
FUSARIUM MONILIFORME 257 302 327 1137 2069 2355 2628 3039 3040 3041 3109 3592 3779 3836 4422 4585 5353 5745 5799 6324 6369 6732 7017 7247 7623
FUSARIUM MONILIFORME V,SUBGLUTINANS 5565
FUSARIUM NIVALE 1482 3042 5122 5756 6640 6981
FUSARIUM OXYSPORUM 257 258 263 589 697 1139 1168 1420 1421 1758 2356 2784 3043 3044 3047 3095 3109 3779 4225 4300 4582 4583 4584 4585 4620 4645 5107 5480 5514 5565 5745 5797 6361 6388 6466 6555 6665 6957 6958 6999 7662
FUSARIUM OXYSPORUM CUCUMERINUM 3548
FUSARIUM OXYSPORUM F,CYCLAMINIS 7663
FUSARIUM OXYSPORUM F,LYCOPERSICI 1138 2124 3045 3046 3778 4580 5108 5109
FUSARIUM OXYSPORUM F,NIVEUM 4580
FUSAPIUM OXYSPORUM F,PINI 90
FUSARIUM OXYSPORUM F,PISI 3048 4683
FUSARIUM OXYSPORUM F,SP,BATATAS 1140
FUSARIUM OXYSPORUM F,SP,CEPAE 2361
FUSARIUM OXYSPORUM F,SP,DIANTHI 2372 2374
FUSARIUM OXYSPORUM F,SP,LYCOPERSICI 2357 2358 4784 5130 6008 6700 7664
FUSARIUM OXYSPORUM F,SP,MELONIS 2359
FUSARIUM OXYSPORUM F,SP,PISI 2360
FUSARIUM OXYSPORUM F,SP,VASINFECTUM 1963 4422 4581 6135
FUSARIUM OXYSPORUM F,TULIPAE 6960
FUSARIUM OXYSPORUM LYCOPERSICI 3548
FUSARIUM OXYSPORUM MELONIS 3548
FUSARIUM OXYSPORUM VAR,LYCOPERSICI 4536
FUSARIUM OXYSPORUM VAR,MEDICAGINIS 6959
FUSARIUM POAE 6261
FUSARIUM REDOLENS 6958
FUSARIUM ROSEUM 1181 2362 3035 3106 3109 3779 3809 3831 4225 4548 4832 5598 5961 6261 7665
FUSARIUM ROSEUM F,SP,CEREALIS 4586
FUSARIUM SAMBUCINUM 5745 6959
FUSARIUM SEMITECTUM 1002 2629 4645 5745 6466
FUSARIUM SOLANI 302 843 1597 2356 2784 3109 3474 3699 3809 4174 4261 4814 5341 5745 6057 6466 6961 6999 7566 7706
FUSARIUM SOLANI F,CUCURBITAE 3978
FUSARIUM SOLANI F,PHASEOLI 5110
FUSARIUM SOLANI F,PISI 4683 5518
FUSARIUM SOLANI F,SP,PHASEOLI 4422 6135
FUSARIUM SOLANI F,SP,PISI 4586 6962
FUSARIUM SOLANI VAR AGRILLACEA 3698
FUSARIUM SPOROTRICHIOIDES 461
FUSARIUM SPOROTRICHOIDES 6261
FUSARIUM STILBOIDES 6466
FUSARIUM TRICINCTUM 259 844 3700 3832 6294 6640 6641
FUSARIUM VASINFECTUM 3573 4587 6367
FUSCUS VESICULOSUS 5143
FUSICOCCUM AMYGDALI 2031 2664 2665 4185 6642
FUSIDIUM 4626
FUSIDIUM CINEUM 7548

GAEUMANNOMYCES GRAMINIS 5197
GAEUMANNOMYCES GRAMINIS VAR,AVENAE 5197

GAEUMANNOMYCES GRAMINIS VAR.GRAMINIS 5197
GALERA MYCOIDES 1876
GALERINA 5204
GALERINA CLAVATA 5758
GALERINA COQUIMBERISIS SP.N. 1236
GALERINA ELAEOPHYLLA SP.N. 1236
GALERINA TUNDRAE 4734
GALERINA VITTAEFORMIS F.TETRASPORA 4734
GALLITHAMNION RUPICALUM 1211
GANODERMA 1777 1796
GANODERMA APPLANATUM 3572 3851
GANODERMA COLOSSUS 3572
GANODERMA LUCIDUM 3002 3572 5999 6627
GARNIA GONATODI 1898
GARNIA MORULA 1898
GARNIA TELFORDI 1898
GARNIA UTINGENSIS 1898
GASTRONAUTA RUNCINA SP.N. 5862
GASTROSTYLA STEINII 3944
GEASTRUM FLORIFORME 7183
GEASTRUM FORNICATUM 7183
GEASTRUM JUREI 7183
GEASTRUM MINIMUM 7183
GEASTRUM SACCATUM 7183
GEASTRUMIA POLYSTIGMATIS 98
GELASINOSPORA 6540
GELIDIELLA ACEROSA 73 1268
GELIDIUM ARBUSCULA 3248
GELIDIUM CARTILAGINEUM 3248
GELIDIUM NOVA-GRANATENSIS 3259
GELIDIUM PRISTOIDES 3527
GEMINELLA PLANCTONICA 5813
GENISTELLOSPORA HOMOTHALLICA 5285
GEOMYCES CRETACEUS 7706
GEOPYXIS CARBONARIA 658
GEORGEFISCHERIA RIVEAE 7116
GEOTRICHUM 2193 6467 6828 7708
GEOTRICHUM CANDIDUM 592 1551 2414 2680 2894 3172 3574 3599 3837 4225 4887 5253 5533 5633 5844 6775 6866 7684
GEOTRICHUM LACTIS 77 99 7449
GEOTRICHUM PSEUDO-CANDIDUM 6866
GEPHYROCAPSA OCEANICA 1940 4012 5295
GIAPHIUM 6057
GIARDIA CANIS 7588
GIARDIA INTESTINALIS 451 4415 7497
GIARDIA LAMBLIA 676 1637 1699 2250 2847 4463 4464 4465 4930 5022 6855
GIARDIA MURIS 3707
GIBBERELLA 2990 7259
GIBBERELLA FUJIKUROI 260 280 4840
GIBBERELLA LATERITIUM 6556
GIBBERELLA ZEAE 327 1137 3836 6369 6641 7623
GIBSMITHSIA HAWAIIENSIS 6523
GIFFORDIA 3881
GIGARTINA INSIGNIS 3527
GIGARTINA STELLATA 2716 5914
GIGARTINA TENELLA 7280
GIGASPERMA 4029
GILBERTELLA PERSICARIA 92 2452
GIROSIGMA 5268
GLAUCOCYSTIS 3870
GLAUCOCYSTIS NOSTOCHINEARUM 2446 3854 4662
GLAUCOMA DRAGESCUI SP.N. 68
GLAUCOMA MYRIOPHYLLI 2558
GLAUCOMIDAE FAM.N. 68
GLENODINIUM 2691
GLENODINIUM FOLIACEUM 1842
GLENOSPORELLA LOBOI 1729
GLIOCLADIUM 5150 5757
GLIOCLADIUM DELIQUESCENS 7017
GLIOCLADIUM ROSEUM 302 2791 4225 4299 7684 7706
GLIOCLADIUM VERMOESONI 7001
GLIOCLADIUM VIRENS 265
GLIOCLADIUM VIRIDE 7014
GLIOMASTIX 3912
GLIOMASTIX MUCORUM 590
GLIOMASTIX MUCORUM VAR.FELINA 590
GLIOMASTIX MURORUM VAR.FELINUM 907
GLOBIGERINA PACHYDERMA 1346 5295
GLOBIGERINA SCITULA 1346
GLOBIGERINA TRUNCATULINOIDES 1346
GLOBOQUADRINA 4146
GLOBOROTALIA 5295 7195
GLOEBIGERINA BULLOIDES 3929
GLOEMONASOVALIS 6426
GLOEOCANTHARELLUS 7072
GLOEOCAPSA 2472 2644 3369 3798 6580
GLOEOCAPSA ALPICOLA 4631
GLOEOCERCOSPORA INCONSPICUA 1245
GLOEOCERCOSPORA SORGHI 1245 3766
GLOEOCOCCUS 2527
GLOEODENDRON CATENATUM 6521
GLOEODENDRON RAMOSUM 6521
GLOEOMONAS 153 1388
GLOEOPHYLLUM SAEPIARIUM 5892
GLOEOPHYLLUM STRIATUM 7304
GLOEOSPORIDIELLA 2500
GLOEOSPORIUM 4641 4648
GLOEOSPORIUM ALBUM 5791
GLOEOSPORIUM AMPELOPHAGUM 4588
GLOEOSPORIUM ELASTICAE 5746
GLOEOTINIA TEMULENTA 7408
GLOEOTRICHIA 5156 7095
GLOEOTRICHIA ECHINULATA 5265 7168
GLOEOTRICHIA MURGABICA 7038
GLOEOTRICHIA NATANS 7168
GLOEOTRICHIA PISUM 7168
GLOIODERMA ATLANTICA SP.N. 5909
GLOIOPELTIS FULCATA 4205
GLOIOPELTIS TENAX 7357
GLOIOSIPHONIA CAPILLARIS 611
GLOIOSPHAERA CLERCIANA 122 5845
GLOIOSPHAERA GLOBULIGERA 122
GLOMERELLA 4603
GLOMERELLA CINGULATA 1109 2326 2761 4168 4648 5723 6388 7366 7655
GLOMERELLA TUCUMANENSIS 5721
GLOMOSPORIUM 1879
GLOTZIA EPHEMERIDARUM 5285
GLUGEA 1893
GLUGEA STEPHANI 5899
GNOMONIA DEPRESSULA 1947
GNOMONIA ERYTHROSTOMA 3412
GNOMONIA FRUCTICOLA 3965
GNOMONIA LEPTOSTYLA 621
GNOMONIA PLATANI 6910 7623
GNOMONIA QUERCINA 7623
GOLENKINIA 6715
GOLENKINIA MINUTISSIMA 7048
GOMONTIA POLYRHIZA 4668
GOMPHIDIA 3156
GOMPHIDIUS 6062 5208
GOMPHIDIUS RUTILUS 284
GOMPHONEIS 3247
GOMPHONEMA 3521 5267
GOMPHONEMA AUGUR VAR.SINICA 3125
GOMPHONEMA OLIVACEUM 2656
GOMPHONEMA PARVULUM 7042
GOMPHOSPHAERIA 3239
GOMPHUS 7072
GOMPHUS CANADENSIS 580
GONATOBOTRYUM FUSCUM 6731
GONATOZYGACEAE 2435
GONGROSIRELLA VERMIFORMIS GEN.SP.N. 4669
GONIMOPHYLLUM SKOTTSBERGII 7057
GONIUM MULTICOCCUM 7460
GONOHYMENIA 7453
GONOHYMENIA MESOPOTAMICA 2472
GONOHYMENIA SINAICA 2472 7453
GONYAULAX BALECHII 571

GONYAULAX MONILATA 5818
GONYAULAX POLYEDRA 3446 5818 6426 7084
GONYAULAX SPINIFERA 5524
GONYAULAX TAMARENSIS 5524
GONYOSTUMUM SEMEN 4837
GOSSYPIUM HIRSUTUM 2380
GRACILARIA BECKERI 3527
GRACILARIA CORTICATA 3444
GRACILARIA EDULIS 5823
GRACILARIA VERRUCOSA 5875
GRACILIS 6704
GRAHAMELLA 4058
GRAMMATOPHORA 5268
GRAPHIUM 4174
GREGARINA EMBIAE SP.N. 7133
GREGARINA GARNHAMI 1745
GREGARINA POLYMORPHA 1765
GRIFFITHSIA FLOSCULOSA 1844 2444
GRIFFITHSIA PACIFICA 2564 6493 6494
GRINELLIA AMERICANA 956
GUIGNARDIA CITRICARPA 4245 4288
GYMNARCHUS NILOTICUS 6426
GYMNOASCACEAE 3895
GYMNOASCUS ALETOSPORA SP.N. 6442
GYMNOASCUS DEMONBREUNII 1654
GYMNOASCUS DUGWAYENSIS 6447
GYMNODINIACEAE 1296 1297
GYMNODINIUM 1175 3116 3241 4933 5275 6474
GYMNODINIUM BREVE 7323
GYMNODINIUM MARINUM 3875
GYMNODINIUM SPLENDENS 2522 3120 5818
GYMNODINIUM UBERRIMUM 656 7156 7165
GYMNOGONGRUS MINUTUS 3259
GYMNOSPORANGIUM 5839
GYMNOSPORANGIUM CLAVIPES 93
GYMNOSPORANGIUM GLOBOSUM 93
GYMNOSPORANGIUM JUNIPERI-VIRGINIANAE 93
GYMNOSTOMA 5229
GYRODINIUM COHNII 4792
GYROIDINA 7191
GYROMITRA FASTIGIATA 2456
GYROMITRA INFLATA 2456
GYROMITRA PRATENSIS 2456

HAEMATOCOCCUS LACUSTRIS 4903
HAEMATOCOCCUS PLUVIALIS 5386
HAEMATOMMA ELATINUM 4656
HAEMATOMONAS CARASSII 6856
HAEMATOMONAS COBITIS 6856
HAEMOGREGARINA DELAGEI 6889
HAEMOGREGARINA LACERTAE 6856
HAEMOGREGARINA STEPANOVI 6856
HAEMOPROTEUS 61 6856
HAEMOPROTEUS COLUMBAE 1929 3938 5859 7600
HAEMOPROTEUS MELEAGRIDIS 7603
HAEMOPROTEUS METCHNIKOVI 4708
HAEMOPROTEUS VELANS 5902 6480
HAEMOSPORIDIA 7088
HAINESIA 521
HALIGENA 1960
HALIGENA UNICAUDATA 1335
HALIMEDA OPUNTIA 7099
HALIMEDA TUNA 5184
HALONECTRIA 1960
HALOPTERIS SCOPARIA 5279
HALOSACCIOCOLAX LUNDII 7056
HALOSPHAERIA 1960
HALYMENIA FLORESIA 3400
HALYMENIA TRIGONA 3206
HANNAEA ARCUS 3247
HANSENIASPORA 586
HANSENULA 318 586 2097 2405 3269 3691 5786 7220
HANSENULA ANOMALA 1918 1978 2775 3317 3352 3840 4327 5201 6012 6628
HANSENULA ANOMALA VAR.ANOMALA 4643
HANSENULA CAPSULATA 728 1321
HANSENULA CIFERRI 223 2045
HANSENULA HOLSTII 622 1273 4157 5941 6380
HANSENULA MISO 6585
HANSENULA SATURNUS 6012
HANSENULA SILVICOLA 6012
HANSENULA SUBPELLICULOSA 1188 6292
HANSENULA WINGEI 623
HANTZSCHIA 5267
HANZAWAIA 7191
HAPALOSIPHON TENUISSIMUS 3123
HAPLOSPORANGIUM PARVUM 3845
HAPLOSPORELLA TERRICOLA SP.N. 5214
HAPLOSPORIDIUM AULORDILI 7601
HARPELLA MELUSINAE 2453
HARPOCHYTRIUM HEDINII 17 3147
HARPOGRAPHIUM 4619
HARPOSPORIUM DRECHSLERI SP.N. 5215
HARRISICHARA CAECILIANA 6709
HARTMANNELLA 5067 6112 6855 7565
HARTMANNELLA CASTELLANII 3930 [illegible]
HARTMANNELLA CULBERTSONI 3983 3984 4861 5681 5804 6023 7621
HARTMANNELLA GLEBAE 1964 3559
HARTMANNELLA RHYSODES 1964 2402 3559 5804 7621
HAZENIA MIRABILIS 3245
HEBELOMA 6381
HEBELOMA CRUSTULINIFORME 1164
HECATONEMA 3881
HECATONEMA MACULANS 72
HEGNERIELLA DOBELLI GEN.N. 2675
HELEOPERA 4630
HELICOSTYLUM PYRIFORME 160
HELIOPHRYA ERHARDI 2511
HELIOTUM HERBARUM 6148
HELIOTUM IMBERBE 6148
HELIOZOA 6856
HELISCUS SUBMERSUS 4141
HELMINTHOCLADIA PAPENFUSSII 612
HELMINTHOCLADIA SENEGALENSIS 5826
HELMINTHORA FURCELLATA 612
HELMINTHOSPORIUM 1122 1777 2761 3055 3384 3431 4225 5396 5545 5753 6261 6368 6369 6385 7715
HELMINTHOSPORIUM APATTERNAE 1594
HELMINTHOSPORIUM CARBONUM 1096 2682 4580
HELMINTHOSPORIUM CYNODONTIS 5747
HELMINTHOSPORIUM DEMATIOIDEUM 3414 7311 7312 7313 7314 7315
HELMINTHOSPORIUM DICTYOIDES 6964
HELMINTHOSPORIUM GRAMINEUM 3016 3053 5112
HELMINTHOSPORIUM HAWAIIENSE 5747
HELMINTHOSPORIUM INTERSEMINATUM 2206
HELMINTHOSPORIUM MAYDIS 514 529 533 534 985 1163 1181 1182 1133 2363 2364 2365 2391 2392 2393 2394 2395 3054 3102 3112 3781 3833 4589 4590 4702 4831 5045 5113 5114 5115 5749 6907 6965 6966 6967 6968 6969 7375 7667 7671
HELMINTHOSPORIUM ORYZAE 3504 4591 4592 6988 7668
HELMINTHOSPORIUM ROSTRATUM 4560
HELMINTHOSPORIUM SACCHARI 261 5116 6065
HELMINTHOSPORIUM SATIVUM 1461 2366 3793 6079 6389 7648
HELMINTHOSPORIUM SICCANS 2683
HELMINTHOSPORIUM SOROKINIANUM 2367
HELMINTHOSPORIUM SPICIFERUM 6295
HELMINTHOSPORIUM TETRAMERA 4560 5799
HELMINTHOSPORIUM TRITICI-VULGARIS 7122
HELMINTHOSPORIUM TURCICUM 514 515 1144 2368 3766 3782 5480 6894 7623
HELMINTHOSPORIUM VAGANS 1125

HELOTIUM DICRANI 6538
HELOTIUM FLAVO-RUFUM 6441
HELVELLA CUPULIFORMIS 1948
HELVELLA FASTIGIATA 2456
HELVELLA PEZIZOIDES 1948
HELVELLA PHLEBOPHORA 1948
HEMATOCOCCUS PLUVIALIS 905
HEMICYCLIOSTYLA SPHAGNI 7137
HEMIDISCUS HARDMANNIANUS 3996
HEMILEIA BUNTINGII 6549
HEMILEIA VASTATRIX 1119 1235 1763 1764 6549
HEMISELMIS VIRESCENS 4091
HEMITRICHIA CLAVATA 13
HENDERSOMILA " 541
HENDERSONIA ACICOLA 2327
HENDERSONULA <= 1780 3056
HENDERSONULA TORULOIDEA 2944 4259
HENNEGUYA GAMBUSI SP.N. 3939
HENNEGUYA SARGI 6856
HENNEGUYA TEXANA SP.N. 4053
HENNEGUYA ZSCHOKKEI 5688
HEPATOZOON 689 4058 5067 5552
HEPATOZOON CANIS 6890
HEPATOZOON DOMERGUEI 3230
HEPATOZOON GRISEISCIURI 2299 6512
HEPATOZOON RAREFACIENS 1930
HEPPIA 7453
HEPPIA LUTOSA 4041
HEPTAMERIA OBESA 1222
HEPTAMERIA UNCINATA 1222
HEPTAZOON 4518
HEPTAZOON RAREFACIENS 5067
HERICIUM 2463
HERICIUM CORALLOIDES 1458
HERICIUM ERINACEUS 2464
HERICIUM RAMOSUM 1458
HERPELLA MELUSINAE 42
HERPETOMONAS 2951 6739
HERPETOMONAS MUSCARUM 7589
HERPETOMONAS MUSCARUM MUSCARUM SUBSP.N.
    1885
HERPETOSIPHON GEYSERICOLA 276
HERPETOSOMA 7129
HERPOBASIDIUM 3277
HETERINA 4041
HETEROBASIDIEN TASMANICA 285
HETEROCHORDARIA ABIETINA 572 3999
HETEROCILACUS RETICULATUS 571
HETEROPODA 688
HETEROTRICHA 5229
HEVEA PODOSPOROIDES SP.N. 6468
HEXAGONA 36 3278
HEXAMASTIX TERMITIS 3229
HILDENBRANDIA DAWSONII 560
HIPPOTHOA HYALINA 5523
HIRSUTELLA GIGANTEA 7450
HIRSUTELLA THOMPSONII 7450
HISTIOBALANTIUM MAJUS 7199
HISTOMONAS 477 4504
HISTOMONAS MELEAGRIDIS 420 1886 1925 5047
    6236 6302 6796 6797
HISTOPLASMA 428 941 1654 2193 2877 4970
    5016 5628 5634 6828 7550
HISTOPLASMA ANOMALA 6866
HISTOPLASMA CAPSULATA 1653
HISTOPLASMA CAPSULATUM 224 234,429 984 995
    996 997 1011 1460 1636 1725 2095
    2189 2209 2235 2491 2720 2774 3499
    3626 3627 4260 4423 4424 4425 4457
    4897 4996 5014 5015 5252 5533 5626
    5627 5633 5656 5662 5829 6105 6229
    6235 6262 6826 6827 6829 7079 7123
    7287 7609 7502
HISTOPLASMA CAPSULATUM DUBOISII 6246
HISTOPLASMA DUBOISII 2235 2236 4425 7545
    7549
HIZIKIA FUSIFORME 1828
HOECKERA APICULATA 7316
HOHENBUEHELIA 3156
HOLLENBERGIA 4001
HOLOMASTIGOTES ELONGATUM 6704
HOLOMASTIGOTOIDES 6704
HOLOPEDIUM GIBBERUM 3255
HOLOPHRYA 1905
HOLOSTICHA MANCA 7199
HOLOTRICHA 367
HOLWAYA MUCIDA 1860
HOMOBASIDIOMYCETIDAE 5250
HOMODENDIUM 3598
HOPLORHYNCHUS OLIGACANTHUS 3733
HORMIDIUM 3824 6397
HORMIDIUM FLACCIDUM 5762
HORMISCIUM 5755 7705
HORMODENDRUM 7582 7715
HORMODENDRUM CLADOSPORIOIDES 2206
HUMICOLA 286 2780 5216 6575
HUMICOLA BRUNNEA VAR AFRICANA 2069
HUMICOLA GRISEA 530
HUMICOLA GRISEA VAR,THERMOIDA 1471
HUMICOLA LANUGINOSA 2591 3840 6829 7249
HUMICOLA ZOLLERNIAE SP.N. 7077
HYALODENDRON FUSIFORME SP.N. 4031
HYALODISCUS SIMPLEX 3853
HYALOSCYPHA PSEUDOPUBERULA SP.N. 2458
HYALOSCYPHA VELENOVSKII SP.N. 2458
HYALOTHECA 2528
HYDNANGIUM SODERSTROEMII 7183
HYDNELLUM 6456
HYDNELLUM PARVUM 6456
HYDNOBOLITES 23
HYDNOCHAETE OLIVACEUM 3902
HYDNUM CALVATUM 6455
HYDNUM CRASSUM 6455
HYDNUM CROCIDENS 31
HYDNUM FUMOSUM 6455
HYDNUM FUSCOINDICUM 6455
HYDNUM IMBRICATUM 1874 6455
HYDNUM IMBRICATUS VAR.MENTICOLA 6455
HYDNUM INDURESCENS 6455
HYDNUM L.EXFRIES 1874
HYDNUM LAEVIGATUM 6455
HYDNUM REPANDUM 1874
HYDNUM RIMOSUM 6455
HYDNUM SCABROSUM 6455
HYDNUM SUBINCARNATUM 6455
HYDNUM UNDERWOODII 6455
HYDRODICTYON 2822
HYDRODICTYON AFRICANUM 2712
HYDRODICTYON RETICULATUM 6085 6487 7168
HYDROGENOMONAS 3824
HYDRONECTRIA 3280
HYDRURUS FOETIDUS 3247
HYGROCYBE GOMEZ-MILLASII 7183
HYGROPHOROPSIS AURIANTIACA 2702
HYGROPHORUS CHRYSODON 6387
HYGROPHORUS MARGINATUS 4026
HYMENOCARDIA ACIDA 98
HYMENOCHAETE RUBIGINOSA 1238
HYMENOMONAS 3979
HYMENOMONAS CARTERAE 2431
HYMENOSTOMA 5229
HYPHANTRIA CUNEA 4519
HYPHOLOMA 5204
HYPHOLOMA FASCICULARE 5503
HYPHOMYCES DESTRUENS 2936 5663
HYPHOMYCETES 3912 7187
HYPNEA MUSCIFORMIS 1451 3821
HYPNEA VALENTIAE VAR.GARDNERI 5825
HYPOCREA GELATINOSA 7014
HYPOCREA PSYCHROPHILA SP.N. 2457
HYPOGYMNIA PHYSODES 4657
HYPOLITHUS BICOLOR 61 100

HYPOMYCES 6466
HYPOPHYLLUM MIDDENDORFII 6495
HYPOTRICHA 5229
HYPOTRICHIDA 696
HYPOXYLON 5896
HYPOXYLON ATROPUNCTATUM 6949
HYPOXYLON FRAXINOPHILUM 6443
HYPOXYLON MAMMATUM 1110
HYPOXYLON MEDITERRANIUM 6949
HYPOXYLON MICROPLACUM 80
HYPOXYLON MORAVICUM 6443
HYPOXYLON PAUPERATUM 5887
HYPOXYLON RUBIGINOSUM 26
HYSTERIUM TAMARINDI 303

ICHTHYOPHTHIRIUS MULTIFILIS 1079 3233 5299 5709 5710
ICHTHYOPHTHIRIUS MUTABILIS 5299
ICHTHYOPHTHIRIUS NIGRA 5299
ICHTHYOPHTHIRIUS SUBTILIS 5299
ICMADOPHILA ERICETORUM 5930
ICONELLA VARIABILIS 5181
INERMICHONA GEN,N. 1350
INERMICHONA GRINDLEYI GEN,N,SP,N. 1350
INERMICHONA PATELLA GEN,N,SP,N. 1350
INERMICHONA SOMATICA GEN,N,SP,N. 1350
INOCYBE FASTIGIATA 7370
INOCYBE GERANIODORA 581
INOCYBE HYSTRIX 3156
IODAMOEBA BUTSCHII 5226
IODAMOEBA BUTSCHLII 415 4415 4930 7565
IRIDIA LUCIDA 3186
IRIDOEA 4002
IRPEX PACHYODON 3418
ISARIA CRETACEA 5659
ISARIA FARINOSA 6867 6868
ISCHADITES ABBOTTAE 567
ISCHADITES HEMISPHERICUS 5814
ISOCHRYSIS GALBAMA 6398
ISOCHRYSIS GALBANA 1175 1546 2807 4837
ISOCHYLA SP N-59 7282
ISOSPORA 1746 5067 6312 6855 7090
ISOSPORA ALAUDAE 6559
ISOSPORA BELLI 3675 4481
ISOSPORA BIGEMINA 5259
ISOSPORA CANIS 6350
ISOSPORA CANNABINAE 6559
ISOSPORA CARDINALIS 6559
ISOSPORA CERTHIAE 6559
ISOSPORA CINCLI 6559
ISOSPORA FELIS 1749 4520
ISOSPORA HAMMONDI 3934
ISOSPORA HOMINIS 3675 4709
ISOSPORA MARQUARDTI SP,N. 5900
ISOSPORA PETROCHELIDON SP,N. 6313
ISOSPORA RIVOLTA 4520
ISOSPORA VARANI 5936
ISOTRICHA 4750 4865
ISOTRICHA INTESTINALIS 492 1352 2737
ISOTRICHA PROSTOMA 492 1352 2737
ISTHMIA NERVOSA 5268
ISTHMOPLEA SPHAEROPHORA 72

JANCZEWSKIA GARDNERI 7057
JANIA ADHAERENS 667
JANIA CRASSA 667
JOENIA ANNECTENS 6704

KABATIELLA CAULIVORA 3057
KALLYMENIA FELDMANNII 2482
KALLYMENIA MICROPHYLLA 2482
KALLYMENIA REQUIENII 2482
KATODINIUM DORSALISULCUM 6398
KEISSLERIELLA 3280
KEISSLERIELLA GENISTAE 4732
KENTROPHOROS FISTULOSUM 4367
KEPHYRION CINCTUM 924
KEPHYRIOPSIS 4724
KERATINOMYCES 916
KERATINOMYCES AJELLOI 123 1728
KERATINOPHYTON TERREUM 4957
KERONOPSIS PERNIX 7199
KERONOPSIS RUBRA 6114
KLEBSORMIDIUM FLACCIDUM 7049
KLOECKERA 586 3275 5786 7220
KLOECKERA APICULATA 3269 4032 6012 6721
KLOECKERA BREVIS 2014 2015 4162
KLOSIELLA MABOKENSIS SP,N. 1931
KLOSIELLA MURIS 1931
KLOSSIA HELICINA 605
KLOSSIELLA 3230
KLOSSIELLA EQUI 7134
KLUYEROMYCES FRAGILIS 2775
KLUYVERA CITROPHILA 845
KLUYVEROMYCES 5835 7204
KLUYVEROMYCES LACTIS 5528
KORUGA 6473
KUDOA BRANCHIATA SP,N. 6477
KUDOA ELEOTRISI SP,N. 5860
KUEHNEROMYCES MUTABILIS 1279 6600
KUETZINGIA NATALENSIS 3527
KYMADISCUS HALIOTREPHUS GEN.N.,COMB.N. 3280

LABOULBENIALES 3692 6541
LABYRINTHOMYXA MARINA 2274
LABYRINTHULA 55 3875 6497
LABYRINTHULA ALGERIENSIS 5190
LABYRINTHULA MINUTA 5190
LACCARIA CANALICULATA 1799
LACCARIA LACCATA 6386 6387
LACERTA ARMENIACA 7602
LACERTA SAXICOLA NAIRENSIS 7602
LACRYMARIA 3156
LACRYMARIA OLOR 7138
LACTARIA 3156
LACTARIUS 356 4107
LACTARIUS CIRCELLATUS 6457
LACTARIUS HORTENSIS 6457
LACTARIUS HYSGINUS 7370
LACTARIUS PERGAMENUS 3419
LACTARIUS PYROGALUS 6457
LACTARIUS RELLEREUS 4062
LACTARIUS SPINOSULUS 6457
LACTARIUS TERMINOSUS 7370
LACTARIUS VELLEREUS 3419
LACTOCOLLYBIA MODESTA SP,N. 1236
LAGYNOPHRYA FUSIDENS 1905
LAINGIA PACIFICA 6062
LAMBERTELLA BUCHWALDII 6444
LAMBERTELLA KUMAONICUS 6444
LAMBLIA 2853
LAMBLIA MURIS 5668
LAMINARIA 7022 7266
LAMINARIA DIGITATA 4131 4132 5145 5272 552
LAMINARIA HYPERBOREA 3117 4131 5821 7166
LAMINARIA LONGIPES 5911
LAMINARIA SACCHARINA 4154 5462 7166
LAMINARIA SINCLAIRII 5911
LAMINARIACEAE 3822
LAMPRODERMA ARCYRIODES 13 14
LAMPROPEDIA HYALINA 2512
LAMPROSPORA LUTZIANA 2542
LAMPROTHAMNIUM SUCCINCTUM 3868
LANKESTERELLA MINIMA 6856
LANOPILA 1870
LANZIA 6441
LASALLIA PUSTULATA 186 782
LASIOBOLUS CILIATUS 3086
LASIOBOLUS RUBER 658
LAURENCIA JOHNSTONII 3407
LAURENCIA NIPPONICA 3408
LAURENCIA OKAMURAI 110 3407
LAURFNCIA PACIFICA 3407

LAURENCIA SPECTABILIS 3407
LAURENCIA SPLENDENS 3407
LEATHESIA DIFFORMIS 110
LECANORA CONIZAEOIDES 1823
LECANORACEAE 601
LECCINUM SCABRUM 2387
LECCINUM TESTACEO-SCABRUM 6550
LECIDEA 128
LECIDEA CINNABARINA 4656
LEDUM GROENLANDICUM 102
LEISHMANIA 365 412 987 1069 1070 1639 1640 1641 1642 1643 1644 1658 1701 2848 2849 4342 4963 5023 5296 5671 6109 6273 6807 6855 7493 7502 7591
LEISHMANIA ADLERI 5222
LEISHMANIA BRASILIENSIS 411 676 948 986 992 1253 4418 5645 6874 7317 7590
LEISHMANIA CANIS 469
LEISHMANIA DONOVANI 244 469 675 676 1253 1700 2132 2251 3920 4466 5488 5669 6237 7508 7557
LEISHMANIA ENRIETTII 1253 1659 4505 6791 6792
LEISHMANIA GUYANENSIS 1253
LEISHMANIA INFANTUM 1253
LEISHMANIA MEXICANA 411 986 1253 3920 7590
LEISHMANIA OLMECA 411
LEISHMANIA PERUANA 1253
LEISHMANIA PIFANOI 1253
LEISHMANIA TARENTOLAE 187 1600 2054 6687
LEISHMANIA TROPICA 469 470 675 676 1033 1034 1638 3656 3920 4082 4506 5481 5854 6793 6794 7508 7590
LEISHMANIA TROPICA MAJOR 1253 4507
LEISHMANIA TROPICA TROPICA 1253
LEJOSEPIUM 2033
LEMANEA FLUVIATILIS 3959
LEMBADION BULLINUM 64
LEMBUS 6420
LEMMA MINOR 7430
LENTESCOSPORA 3280
LENTINUS 6600
LENTINUS EDODES 6404
LENTINUS LEPIDEUS 4226 7013
LENTINUS TIGRINUS 2036
LENZITES SAEPIARIA 1186 1280 7013 7415
LENZITES SAEPIARIUM 5892
LENZITES THERMOPHILA 6633
LENZITES TRABEA 6408 7013
LEPIDOSPHAERIA 1869
LEPIOTA CRISTATA 5758
LEPIOTA RHACODES 5503
LEPISTA NUDA 631
LEPOCINDIS OVUM 5270
LEPOMIS 4009
LEPTOCYLINDRUS DANICUS 5593
LEPTOGIUM 669
LEPTOGIUM LICHENOIDES 5384
LEPTOGRAPHIUM HYMENAEAE SP.N. 7077
LEPTOLEGNIELLA 1851
LEPTOLEGNIELLACEAE 1851
LEPTOMITUS 5896
LEPTOMONAS 216 2951
LEPTOMONAS PESSOAI 6739
LEPTOPORUS LIGNOSUS 5251
LEPTOSHAERIA SENEGALENSIS 6827
LEPTOSIRA 569
LEPTOSPHAERIA 1327 1960 3280
LEPTOSPHAERIA AVENARIA F.SP.TRITICEA 2073 3482 3756
LEPTOSPHAERIA KORRAE 5722
LEPTOSPHAERIA MACULANS 6911
LEPTOSPHAERIA NARMARI 5722
LEPTOSPHAERIA SENEGALENSIS 2242 6829
LEPTOSPHAERULINA AUSTRALIS 1223
LEPTOSPHAERULINA BRIOSIANA 6974 6984
LEPTOSPHAERULINA TRIFOLII 1113 6666
LEPTOTREMA 3179
LEPTOTRICHIA 4741
LERNAEOPHRYA 2510
LERNAEOPHRYA CAPITATA 2511
LESQUEREUSIA 678
LESQUEREUSIA MODESTA VAR.N. 1255
LESQUEREUSIA SPIRALIS 56
LEUCOCYTOZOON 6856 6892
LEUCOCYTOZOON BERESTNEFFI 2300
LEUCOCYTOZOON CAULLERYI 6891
LEUCOCYTOZOON LAVERANI 2300
LEUCOCYTOZOON SAKHAROFFI 2300
LEUCOCYTOZOON SIMONDI 1895 4708 6478 7600
LEUCOCYTOZOON SMITHI 7603
LEUCOCYTOZOON ZUCCARELLI 2300
LEUCOPAXILLUS CEREALIS 6389
LEUCOSPORIDIUM 6056
LEUCOSPORIDIUM SCOTTII 5890 7124
LEUCOSTOMA CINCTA 6334
LEUCOSTOMA PERSOONII 6334
LEVEILLULA 4603 5196
LEVEILLULA TAURICA 3760 6924
LEVRINGIELLA GARDNERI 7057
LIAGORA DISTENTA 74
LIAGORA TETRASPORIFERA 74
LIBERTELLA 7114
LICEA HEPATICA 6436
LICHENES 3918
LICMOPHORA LYNGBYEI 5802
LIGNINCOLA 3280
LIGUSTRUM VULGARE 1224
LIMACINULA ANOMALA 5198
LIMACINULA BUTLERI 5198
LIMACINULA JAVANICA 5198
LIMACINULA MUSICOLA 5198
LIMACINULA SAMOENSIS 5198
LIMACINULA THEAE 5198
LINDERINA PENNISPORA 6228 7063
LINDRA 3280
LIPOMYCES 227 7297
LIPOMYCES LIPOFERUS 6052
LIPOMYCES STARKEYI 4134 7367
LITHOTHAMNION CALCAREUM 5420
LITUOLACEA 4048
LOBARIA 5525
LOBARIA EROSA 4746
LOBARIA LAETEVIRENS 4688
LOBARIA PULMONARIA 6265
LOBOCYSTIS DICHOTOMA VAR.MUCOSA 3887
LOPHODERMELLA CERINA 2327
LOPHODERMELLA MORBIDA SP.N. 7065
LOPHODERMIUM AUSTRALE 2327
LOPHODERMIUM PINASTRI 2492 2996 6912 6913
LOPHOTRICHUS AMPULLUS 1225
LOPHOTRICHUS BREVIROSTATUS 1225
LOPHOTRICHUS INCARNATUS SP.N. 1225
LOPHOTRICHUS MARTINII 1225
LOXOCEPHALUS 6393
LOXODES MAGNUS 135 1353 4368 7198
LOXODES STRIATUS 135 1353 7198
LULWORTHIA 3280
LULWORTHIA PURPUREA 1335
LYCOGALA EPIDENDRUM 13
LYCOPERDON DEPRESSUM 5758
LYCOPERDON FOETIDUM 1323 1953
LYCOPERDON GEMMATUM 1164 4107
LYCOPERDON MOLLE 1323
LYCOPERDON NORVEGICUM 1953
LYCOPERDON PECKII 1953
LYCOPERDON PEDICELLATUM 1953
LYCOPERDON PERLATUM 1323 1953 6387 6458
LYCOPERDON PYRIFORME 1323
LYNGBYA 606 4066 5154 5399 6516
LYNGBYA LIMNETICA 924
LYNGBYA MUCICOLA 3239

MACBRIDEOLA CORNEA 1846 1849 4325
MACBRIDEOLA DECAPILLATA 1849
MACOWANITES CARMINEUS 31
MACROCHLORIS DISSECTA 6430
MACROCYSTIS PYRIFERA 2714
MACROLEPIOTA PROCERA 3159
MACROPHOMA 1926 3280
MACROPHOMA ALLAHABADENSIS 1598
MACROPHOMIA PHASEOLINA 3780
MACROPHOMINA PHASEOLI 90 307 1597 4261 4262
5096 5117 5750 5759 6970 7669
MACROTYPHULA GEN,N, 6453
MACROVENTURIA ANOMOCHAETA SP.N. 3152
MACROVENTURIA WENTII SP.N. 3152
MADURELLA GRISEA 941 6827
MADURELLA MYCETOMII 941 1691 2194 2240 2242
MAGNAPORTHE SALVINII 6445
MALACOZOOMONAS GEN,N. 5851
MALACOZOOMONAS PATELLAE 5851
MALASSEZIA FURFUR 662 1027 2195 2895 3506
3646 6266
MALBRANCHEA PULCHELLA VAR SULFUREA 2780
MALLOMONAS 7160
MALPIGHAMOEBA MELLIFICAE 2289
MANGLICOLA GUATEMALENSIS GEN.N.,SP,N. 3280
MARASMIUS 505 1777 1795 1799
MARASMIUS ANDROSACEUS 6019
MARASMIUS CAPILLIPES 4737
MARASMIUS GRAMINUM 5758
MARASMIUS OREADES 4735
MARASMIUS SCANDENS 2333
MARAVALIA 7638
MARAVALIA HYALOSPORA 1875
MARCELLEINA BREVICOSTATISPORA 21
MARGARINOMYCES 7011
MARGINOPHORA VERTEBRALIS 6047
MARSSONINA CORONARIA 516
MARTENSIOMYCES PTEROSPORUS 7063
MARTIELLA 3911
MASONIELLA GRISEA 7001
MASSARIA STIPITATA 1947
MASSARTIA 4933
MASSOSPORA 6872
MASTIGLOIA 5267
MASTIGOCLADUS LAMINOSUS 877 2645 5905
6026 7141
MASTIGOPHORA 6856
MASTOGLOIA SMITHII 7145
MATARICHIA VESPARIUM 13
MATTESIA ORYZAEPHILI 7604
MATTESIA TROGODERMAE 2314
MEGATRYPANUM INGENS 4063
MELAMPSORA 6341
MELAMPSORA DURRIEUI 1325
MELAMPSORA EPITEA 503 4736
MELAMPSORA EUPHORBIAE 1920 2498
MELAMPSORA LINI 1920 1921 2498 3160 4076
4553 4554 4936 6930 7635
MELAMPSORA PINITORQUA 7637
MELAMPSORIDIUM 4027
MELANOMMA PULVIS PYRIUS 5887
MELANOPHORA 2500
MELANOPSICHIUM ELEUSINIS 3161
MELANOSIPHON INTESTINALIS 72
MELANOSPORA FUSISPORA 7684
MELANOTAENIUM 1879
MELASTIZA 3893
MELASTIZA GRELETI 21
MELEAGRIDIS 477
MELIOLA JUTTINGII 3267
MELIOLA PALMICOLA VAR,AFRICANA 7182
MELONIS 7191
MELONOPSICHIUM NEPALENSE 7636
MELOSIRA 2516 2517 3236 3237 3247 5267
6398
MELOSIRA ALBICANS 3
MELOSIRA AMBIGUA 5268
MELOSIRA ARCTICA 5268
MELOSIRA BINDERANA 6429
MELOSIRA GRANULATA 3235 5169
MELOSIRA ISLANDICA 1303
MELOSIRA ITALICA 3521 7167
MELOSIRA ITALICA SUBSP.SUBARCTICA 643
MELOSIRA SOOCHOWENSIS SP.N. 3125
MELOSIRA SULCATA 3 5268
MELOSIRA VARIANS 3859
MEMBRANOPTERA MULTIRAMOSA 5876
MEMBRANOPTERA PLATYPHYLLA 7106
MEMNONIELLA ECHINATA 302 5799 6326
MENYANTHES 4007
MERIDION 3253
MERIDION CIRCULARE 3247 6486
MERIPILUS TALPAE 2464
MERISMOPEDIA 3239 4631
MERISMOPEDIA TROLLERI 924
MERISTOTHECA PAPULOSA 821
MEROGREGARINA 1900
MEROSELENIDIUM 1900
MERULIUS 3162
MERULIUS BINOMINATUS 32
MERULIUS EORIUM 32
MERULIUS FLAVESCENS 32
MERULIUS INSIGNIS 32
MERLIUS LACRYMANS 3420 5160 6019
MERULIUS PELLICULOSUS 32
MERULIUS PSEUDOLACRIMANS 32
MERULIUS SIMILIS 32
MESOCENA 5295
MESODINIUM FIMBRIATUM 3195
MESODINIUM VIRIDIS 6856
MESOPHYLLUM CONCHATUM 5823
MESOTAENIACEAE 2435
MESOTAENIUM CALDARIORUM VAR.CALDARIORUM
7328
MESOTAENIUM KRAMSTAI 2648
METARRHIZIUM ANISOPLIAE 41 100 1064 3173
3698 3701 3913 6869 7274
METASPHAERIA GUERCINA 5887
METOPOIDES 6856
METOPUS 2558
METSCHNIKOWIA PULCHERRIMA 2112 2386 4032
METSCHNIKOWIA REUKAUFII 3275
MICRASTERIAS CRUX-MELITENSIS 7355
MICRASTERIAS DECEMDENTATA FORMA MAJOR FORM,
4718
MICRASTERIAS DENTICULATA 3866
MICRASTERIAS FIMBRIATA 6117
MICROASCUS CIRRHOSUS 6829
MICROASCUS DECORTICATUS SP.N. 7699
MICROCALLIS 5831
MICROCERATIUM ORSTOMII G.N,SP.N. 5819
MICROCOLEUS 2385 5399
MICROCYSTIS 640 641 1292 3236 3369 4010
5266 6516 7095
MICROCYSTIS AERUGINOSA 1 1198 1291 1428
2560 3238 3239 3570 4354 4805 526
5800 5801 6427 7032 7157
MICROCYSTIS AUDOUINI 5631
MICROCYSTIS FLOS-AQUAE 7157
MICRODEUTOPUS ANOMALUS 1722
MICRODICTYON JAPONICUM 1304
MICRODICTYON OKAMURAI 6488
MICRODICTYON PSEUDOHAPTERON 1304
MICROMITRA 3945
MICROMONOSPORA 7259
MICROMONOSPORA CHALCEA 2032
MICROMONOSPORA FULVOPURPUREA 2032
MICROMONOSPORA FUSCA 2032
MICROPOLYSPORA 668 2591
MICROPOLYSPORA FAENI 3840 5613 5664

ICROSPHAERA ALNI 6925
ICROSPHAERA ALPHITOIDES 5196 6665
ICROSPHAERA GROSSULARIAE 2997
ICROSPORA CANIS 7551
ICROSPORA FURFUR 1672
ICROSPORUM 916 1244 1723 1728 2468 2754 3646 4887 6777
ICROSPORUM AUDOUINII 1693 2844 5632 6751
ICROSPORUM CANIS 1622 1693 2103 2192 2194 2195 2844 2896 2897 3702 4294 4685 5122 5407 5629 5632 6751
ICROSPORUM COOKEI 6751
ICROSPORUM EQUINIUM 3667
ICROSPORUM FULVUM 123 1246
ICROSPORUM FULVUM-GYPSEUM 2194
ICROSPORUM FURFUR 1694 2898
ICROSPORUM GYPSEUM 6263101 123 1246 1554 172 2106 2280 4685 4957 5217 5407 5632 5894 6751 6829
ICROSPORUM NANUM 4685 7584
ICROSPORUM QUINCKEANUM 6626
ICROSPORUM VANBREUSEGHEMII 6751
ICROTHAMNION KUETZINGIANUM 6050
ICROTHECIUMINORDINATUM 3892
ICROTHELIA LINDERI NOM.N. 1960
ICROXYPHIUM 1224
ICROZONIA VELUTINA 6434
ILESINA EXIGUA 4736
INIMEDUSA 3163
ISGOMYCES HINGSTONI 6543
NIAECIA NIVEA 6538
OLLISIA STROMATICA SP.N. 2458
OLLISIOPSIS DENNISII SP.N. 2458
ONACROSPORIUM BEMBICODES 1832
ONACROSPORIUM RUTGERIENSIS 5843
ONADINA 7353
ONASCUS 2062
ONASCUS PURPUREUS 4210
ONGEOTIA 646
ONILIA 4470 7011
ONILIA FRUCTICOLA 6971
ONILIA FRUCTIGENA 5797 6749 6946
ONILIA LAXA 3783 6749
ONILIA SITOPHILA 6326
ONILIACEAE 7716
ONILINIA FRUCTICOLA 2369 3753 4545 4546 4642 5723 7623
ONILINIA FRUCTIGENA 6185
ONILINIA LAXA 7698
ONILOCHAETES INFUSCANS 5075 5118
ONOBLEPHARELLA 5192
ONOCERCOMONAS 5067
ONOCERCOMONAS COLUBRORUM 5852
ONOCHAETIA 5564
ONOCHAETIA INDICA 5751
ONOCHAETIA UNICORNIS 2370
ONOCHAETIELLA 6603
ONOCHRYSIS LUTHERI 1546 6398
ONOCILLIUM INDICUM 7128
ONODICTYS LEVIS 1599
ONODUS SUBTERRANEA 5762
ONOLINIA FRUCTICOLA 4158
ONONEMA 4720
ONOSPORIUM 2033
ONOSPORIUM APIOSPERMIUM 2899
NOSPORIUM APIOSPERMUM 6829
NOSTICHELLA 1926 2500
NOSTROMA GRAVELLEI 5397
NOSTROMA GREVILLEI 4668
NOSTROMA NITIDUM 7101
NOTOSPORELLA SPHAEROCEPHALA 4684
RCHELLA ELATA 6551
RCHELLA HEREDIANA SP.N. 6551
RCHELLA INTERMEDIA 6551
RCHELLA PATAGONIA 6551
RTIERELLA 907 1852 4624 4744 6997 7684
RTIERELLA ALPINA 1319 6326 6616
MORTIERELLA AMBIGUA 5772
MORTIERELLA BAINIERI 5885
MORTIERELLA CANDELABRUM 5885
MORTIERELLA ELONGATA 3211 5885
MORTIERELLA ERICETORUM 5885
MORTIERELLA ISABELLINA 160
MORTIERELLA MARBURGENSIS 5885 6388
MORTIERELLA MINUTISSIMA 5885
MORTIERELLA NANTAHALENSIS 18
MORTIERELLA NANTAHALENSIS SP.N. 5191
MORTIERELLA PARVISPORA 5885
MORTIERELLA PULCHELLA 5885
MORTIERELLA RAMANNIANA 2042 4021
MORTIERELLA ROSTAFINSKII 6537
MORTIERELLA STRANGULATA 6537
MORTIERELLA UMBELLATA SP.N. 6439
MORTIERELLA VESICULATA 3845
MORTIERELLA WOLFII 6829
MORTIERELLA ZYCHAE 5885
MOUGEOTIA 1941 5397 5461 7328
MOUGEOTIELLA 6491
MUCOR 83 120 221 427 907 1010 1166 1475 2193 2779 2791 2881 3096 3111 3431 3598 3636 3694 3698 4094 5303 5624 5666 5773 5776 6244 6261 6829 7002 7011 7016 7017 7259 7540 7707 7708
MUCOR ALTERNANS 957 5771 7033
MUCOR AZYGOSPORA 4067 5312 5401
MUCOR BACILLIFORMIS 160
MUCOR CIRCINELLOIDES 4744
MUCOR CORYMBIFER 24 IP 6132
MUCOR FRAGILIS 6378
MUCOR GENEVENSIS 2717
MUCOR GLOBOSUS 5159
MUCOR HIEMALIS 263 552 1192 1319 1797 1799 2757 3410 3808 3845 5253 5413 5772 7335 7465 7684
MUCOR INAEQUISPORUS 5401
MUCOR JAVANICUS 221
MUCOR LUTENS 2685
MUCOR MIEHEI 160 5970
MUCOR PLUMBENS 6568 7465
MUCOR PRAINII 617 3212
MUCOR PUSILLUS 160 1976 3456 3840 4161 5413
MUCOR RACEMOSUS 77 514 4225 7706
MUCOR RAMANNIANUS 2761 5413 6388 7682
MUCOR ROUXII 157 158 159 160 2589 6129 6625 6625 6629 7396
MUCOR SPINOSUS 4287 5506
MUCORALES 856 6243
MUCRONELLA AGGREGATA 6552
MUCORONELLA FUSIFORMIS 5830
MUKAGOMYCES 23
MURIELLA ALASCENSIS 1245
MYCENA 5758
MYCENASTRUM 1870
MYCOGLAENA 1882
MYCOGONE PERNICIOSA 5140
MYCOMYCOSES 6260
MYCORHYNCHUS PETCHII 3086
MYCOSPHAERELLA 3280 4919 6915
MYCOSPHAERELLA BRASSICICOLA 6944
MYCOSPHAERELLA CITRI SP.N. 4547
MYCOSPHAERELLA FRAGARIAE 502 6914
MYCOSPHAERELLA JUTLANDICA 1947
MYCOSPHAERELLA MUSICOLA 933
MYCOSPHAERELLA PISTACIARUM 5249
MYCOSPHAERILLA FRAGARIAE 6945
MYCOSYRINX 1879
MYCOTYPHA MICROSPORA 160
MYELOPHYCUS SIMPLEX 6525
MYIOCOPRON CARISSI SP.N. 7182
MYIOCOPRON UMBILICATUM VAR.RUBI VAR.N. 7182
MYRIOCOCCUM ALBOMYCES 1796 2591 2780
MYRIOGRAMME YEZOENSIS 7058
MYRIONEMATACEAE 3958
MYRIOPHYLLUM 4009

MYRIOSTOMA 1870
MYRIOSTOMA COLIFORME 7183
MYROTHECIUM RONDUM 2281
MYROTHECIUM RORIDUM 4220 6326 6870
MYROTHECIUM STRIATISPORUM 907
MYROTHECIUM VERRUCARIA 911 2281 2761 3340 6133 6829 6870 7413
MYXIDIUM 1079
MYXIDIUM BOUIXI SP,N, 5860
MYXOBILATUS SYNODONTIS SP,N, 5860
MYXOBOLUS 1079
MYXOBOLUS CIBINAE 1349
MYXOBOLUS LOTAE 1349
MYXOPHYTA 6009
MYXOSOMA CARTILAGINIS 3940
MYXOSOMA CEREBRALIS 2140 2803 3734 3940 5689
MYXOSOMA DAHOMEYENSIS SP,N, 5860
MYXOSOMA PHARYNGEUS SP,N, 3939
MYXOTHECA ARENILEGA 3926

NADSONIA 586
NADSONIA ELONGATA 5781
NAEGLERIA 680 2290 4475 5903 6855
NAEGLERIA AEROBIA 5681 5804 7421 7565
NAEGLERIA FOWLERI 5585 7006 7565
NAEGLERIA GRUBERI 364 1043 1709 1791 2384 2474 2801 3559 3931 7421 7565
NAEMATOLOMA SUBLATERITIUM 3156
NAJAS FLEXILIS 111
NANIZZIA FULVA 2487
NANNIZZIA FULVA 1246
NANNIZZIA GYPSEA 2487
NANNIZZIA GYPSEUM 1246
NANNIZZIA INCURVATA 1246 2224 5894
NANNOCHLORIS SP, 1566
NANOSCYPHA MACROSPORA SP,N, 6565
NANOSCYPHA PULCHRA SP,N, 6565
NANTZSCHIA 3125
NARASIMHELLA 1855
NASSULA 1934
NAUPLIICOLA 4720
NAUTOCOCCUS MAMMILATUS 7050
NAUTOCOCCUS PYRIFORMIS 7050
NAVICULA 3 1390 2516 2518 3125 3236 3244 3247 5267 7162
NAVICULA CONSTANS 2516
NAVICULA CRYPTOCEPHALA 3521
NAVICULA DECUSSIS 2516
NAVICULA DISTANS 5268
NAVICULA EXIGUIFORMIS 2516
NAVICULA GRIMMEI 2516
NAVICULA HOLOPHILA 3570
NAVICULA INTERGLACIALIS 2516
NAVICULA OPPORTUNA 2516
NAVICULA ORDINARIA 2516
NAVICULA OSTREARIA 1836 3199 4665 4843
NAVICULA PSEUDOTUSCULA 2516
NAVICULA TRANSITANS 5524
NEBELA 4630
NEBELA COLUMBIANA 5298
NEBELA TINCTA 1362
NECTRIA CINNABARINA 3386
NECTRIA COCCINEA VAR,FAGINATA 512 7632
NECTRIA FUCKELIANA 6335 6343 6556
NECTRIA GALLIGENA 1187 2328 2411 3754 6075 6368 6629
NECTRIA HAEMATOCOCCA 2063 4273 5244 6466
NECTRIA HAEMATOCOCCA VAR,CUCURBITAE 964
NEMALION ELMINTHOIDES 612
NEMATODINIUM 3921
NEMATODOMONAS GEN,N, 5853
NEMATODOMONAS GOODEYI 5853
NEMATOSPORA CORYLI 3216
NEOCHLORIS AQUATICA 6518
NEOCHLORIS PSEUDOSTIGMATICA 6995
NEOCOSMOSPORA 6619
NEOCOSMOSPORA AFRICANA 3380 5166
NEOCOSMOSPORA VASINFECTA 163 2685 3279 3380
NEOCOSMOSPORA VASINFECTA (CONT'D) 6747 7633
NEOGYROMITRA CAROLINIANA 2456
NEOPOLYPOROLITHON RECLINATUM GEN,N, 5823
NEOTESTUDINA 1869
NEOVOSSIA 1879
NEPHROMA 5364
NEPHROMA ARCTICUM 6072
NEREOCYSTIS 3402
NEREOCYSTIS LUETKEANA 7159
NEUMOCYSTIS CARINII 4491
NEUROSPORA 1607 2161 3296 4067 4390 4391 4946 5903 7401 7485
NEUROSPORA 19 81 83 140 141 164 195 196 197 198 199 326 386 387 418 524 618 624 705 729 730 731 796 797 798 799 897 965 966 1363 1393 1394 1395 1396 1436 1465 1514 1515 1516 1534 1589 1605 1606 1861 1979 1980 1981 1983 2000 2001 2002 2009 2096 2155 2156 2157 2158 2159 2160 2493 2567 2570 2571 2592 2593 2594 2595 2596 2597 2721 2733 2826 2827 2828 2829 2830 2833 3153 3174 3217 3295 3318 3319 3320 3321 3359 3455 3456 3457 3500 3537 4098 4135 4246 4274 4287 4289 4326 4703 4769 4770 4832 5199 5245 5246 5309 5310 5325 5326 5327 5328 5375 5376 5506 5553 5941 5944 5953 5974 5975 5976 5977 5978 5979 5980 6039 6120 6121 6144 6149 6186 6187 6188 6189 6190 6191 6192 6193 6194 6569 6586 6587 6588 6589 6590 6617 6629 6683 6759 6760 6761 7221 7222 7223 7237 7294 7399 7478 7479 7480
NEUROSPORA MYCELIA 3321
NEUROSPORA SITOPHILA 5159 6194 7600
NEUROSPORA TETRASPERMA 2761 3217 3806 4850 7682
NEUROSPORASITAPHYLA 6261
NEUVOSSIA INDICA 1122
NEVROPOGON 5930
NIA 3280
NIGELLA DAMASCINA 1977
NIGROSPORA ORYZAE 3103
NIGROSPORA SACCHARI 1957
NIGROSPORA SPHAERICA 2206
NITELLA 3579 4659 5183 5903 6422
NITELLA CLAVATA 2561 4237
NITELLA FLEXILIS 297 2060 2713 3867 3868 4206 5497 6118 7718
NITELLA GRACILIS 4872
NITELLA HOOKERI 5910
NITELLA TRANSLUCENS 550
NITOPHYLLUM YEZOENSIS 7058
NITZSCHIA 3 1296 1297 2518 2530 3125 3236 3241 3242 3246 3247 5267 5268 7162 7164
NITZSCHIA ACTINASTROIDES 3949 7459
NITZSCHIA BREVIROSTRIS 6398
NITZSCHIA CLOSTERIUM 1390 2668 4723 5802
NITZSCHIA DELICATISSIMA 5455
NITZSCHIA FRUSTULUM VAR,PERPUSILLA 2516
NITZSCHIA GRACILIS 3239
NITZSCHIA GRADIFERA 7059
NITZSCHIA LINEARIS 3126
NITZSCHIA OVALIS 3565 4789
NITZSCHIA PACIFICA 2529
NITZSCHIA PALEA 3522
NITZSCHIA PUNGENS 2432
NITZSCHIA PUNGIFORMIS 2432
NITZSCHIA SERIATA 1295 1299 4725 6630
NITZSCHIA TURGIDULOIDES 6522
NIZYMENIA 574
NOCARDIA 293 779 941 1728 6260

NOCARDIA ASTEROIDES 525 5533 5655
NOCARDIA BRASILIENSIS 5634
NOCARDIA CORALLINA 290
NOCARDIA MADURAE 2240
NOSEMA 482 1893 3187 3725 5277 7607 7612
7614
NOCTILUCA 6856
NOCTILUCA SCINTILLANS 6524
NODOSARIIDAE 4048
NODULARIA 5399
NOLANEA STAUROSPORA 4734
NONION 7191
NOSEMA ALGERAE 2804
NOSEMA APIS 3560 3735 6893
NOSEMA CAMPOLETIDIS 7615
NOSEMA CARDIOCHILIS 7615
NOSEMA CUNICULI 1747 5690
NOSEMA HELIOTHIDIS 7615
NOSEMA HETEROSPORUM 7605
NOSEMA INFESTA 3736
NOSEMA LOCUSTAE 3736
NOSEMA MELOLONTHAE 7606
NOSEMA NECATRIX 6894
NOSFMA PLODIAE 4519 5901
NOSEMA STEGOMYIAE 2960
NOSEMA STRIGEOIDEAE SP.N. 1896
NOSEMA WHITEI 3737 5691 5692 5693
NOSTOC 606 788 1429 2385 3919 4144 4746
5364 5384 5399 6023
NOSTOC CALCICOLA 7038
NOSTOC CARNEUM 1586
NOSTOC COMMUNE 5932 6518
NOSTOC COPIOSUM 7038
NOSTOC ELLIPSOSPORUM 1825
NOSTOC LINCKIA 7038
NOSTOC MUSCORUM 607 4354 7361
NOSTOC PALUDOSUM 7038
OSTOC PARMELIOIDES 3247
OSTOC PARMELOIDES 2513
OSTOC PRUNIFORME 7168
OSTOC PUNCTIFORME 5363 7038
OSTOC SPHAERICUM 1586
OSTOC SPONGEAEFORME 7038
OTARISII 6518
OTHOLEPIOTA 4029
OTROPIS 4009
UMMULARIA BROOMEIANA 25 3272
UMMULARIA DISCINCOLA 25 3272
UMMULARIA REPANDA 25 3272
UMMULARIA SIGNATA 25 3272
UPHAR 4007 5176
UTTALLIA DANII 1257
UTTALLIA EMBERIZICA 62
UTTALLIA FRUGILEGICA 62
UTTALLIA GARNHAMI 689
UTTALLIA KAZACHSTANICA 62
UTTALLIA KRYLOVI 62
UTTALLIA MERI SP. 2311
UTTALLIA MICROTI 5683
UTTALLIA MUJUNKUMICA 62
UTTALLIA MUSCULI 2961
UTTALLIA RUSTICA 62
YCTOTHEROIDES 4055
YCTOTHEROIDES UTTANGI SP.N. 4055
YCTOTHERUS 5067
YCTOTHERUS CORDIFORMIS 2081
YCTOTHERUS OVALIS 64

OPERCULARIA 3196
CELLULARIA 3179
CHLOCHAETE 3869
CHLOCHAETE FEROX 6534
CHOTERENAIA 3190
CHROMONAS 3861 4713
CHROMONAS DANICA 51 342 2585 2646 4165
4231 4232 4881
HROMONAS MALHAMENSIS 720 3371 3824 4232
OCHROMONAS MALHAMENSIS (CONT'D) 4807
OCHRONOMAS DANICA 6395
OCHROSPHAERA NEAPOLITANA 1862
OCTOMITUS MURIS 5668
OCTOSPORA GIGANTEA SP.N. 6451
OCTOSPORA MUSCI-MURALIS SP.N. 2458
OCTOSPORA TETRASPORA AEGYPTIACA VAR.N. 6446
OCTOSPOREA CARLOSCHAGASI SP.N. 5937
ODONTIA BICOLOR 1238
ODONTOTREMA 4025
OEDOGONIOMYCES 5192
OEDOGONIUM 569 1205 2822 3247 3950 3951
3952 3138 6491
OEDOGONIUM CARDIACUM 1840
OIDIODENDRON 5150
OIDIODENDRON FUSCUM 6066
OIDIUM 6336 6412 6924
OIDIUM MANGIFERAE 4573
OIKOPLEURA RUFESCENS 4725
OLIGOTRICHIDA 686
OLIPIDIOPSIS INCRASSATA 7440
OLPIDIOPSIS ANTITHAMNIONIS 5283
OLPIDIOPSIS VARIANS 7440
OMPHALIA MAURA 3279
OMPHALIASTER ASTEROSPORUS COMB.N. 584
OMPHALIASTER BOREALIS COMB.N. 584
OMPHALINA ERICETORUM 4734
OMPHALINA LILACEOROSEA 33
OMPHALINA PSEUDOANDROSACEA 4734
OMPHALINA VELUTINA 5758
ONCOBASIDIUM THEOBROMAE 2465
OOCYSTIS 1195 2527 3244 3570 5154
OOCYSTIS APICULATA 3870 5185
OOCYSTIS LACUSTRIS 1303 4711
OOCYSTIS MARSONII 6712
OOCYSTIS POLYMORPHA 7051
OOCYSTIS SUBMARINA 1303
OODINIOIDES VASTATOR SP.N. 3287
OOSPORA 2033 3431
OOSPORA LACTIS 509
OPALINA 7380
OPALINA RANARUM 7139
OPALINA ZASUKHINI SP.N. 4692
OPERCULARIA 4056
OPHIOBOLUS 3797
OPHIOBOLUS GRAMINIS 378 959 1553 1759 3074
3500 3794 4548 5501 6368 6389 6907
7634
OPHIOBOLUS GRAMINIS VAR AVENAE 7634
OPHIOBOLUS ORYZINUS 5197
OPHIOCYTIUM MAIUS 4837
OPHIOSTOMA MULTIANNULATUM 898
OPHRYOGLENA MUCIFERA 1993 2643 4285
OPHRYOSCOLEX 4865 5938
OPHRYOSCOLEX CAUDATUS 1352
OPHRYOSCOLEX TRICORONATUS 492
OPISTHOMITUS AVICULARIS 6704
ORBULINA 1256
ORNITHOCERCUS 2438
ORYTOXUM CF VARIABILE 1960
OSCILLATORIA 109 556 642 2418 2527 4149
4715 5282 5399 7162
OSCILLATORIA AGARDHII 4790 4836 7167
OSCILLATORIA AGARDHII VAR.ISOTHRIX 924 7142
OSCILLATORIA CHALYBEA 5592
OSCILLATORIA LIMNETICA/REDECKEI 3235
OSCILLATORIA MINIMA 557
OSCILLATORIA PLATENSIS 1290 1293
OSCILLATORIA PRINCEPS 1386 1503 3119 6049
7141
OSCILLATORIA PROLIFICA 641 5266
OSCILLATORIA REDEKEI 924 7167 7425
OSCILLATORIA RUBESCENS 1195 1816 2527 4836
5179 5906 7425
OSCILLATORIA SALINARUM 7059
OSCILLATORIA TENUIS 606

OSCILLATORIA TEREBRIFORMIS 276
OSCILLATORIA THIEBAUTII 3251
OSTRACOBLABE IMPLEXA 1067 1509
OSTRACODINIUM 4750
OSTRACODINIUM TRILORICATUM 1552
OSTREOBIUM QUEKETTI 650
OXYRRHIS MARINA 3878
OXYTOXUM VARIABILE 4005

PACHYDICTYON CORIACEUM 1209
PACHYSOLEN 586
PADINA 5820
PADINA ARBORESCENS 1828
PADINA PAVONICA 3248
PADIXONIA 5218
PAECILOMYCES 907 2029 2945 4115 5150 5797
PAECILOMYCES FARINOSUS 5925 6289
PAECILOMYCES VARIOTII 1776
PAECILOMYCES VIRIDIS 5515 5516 5517
PALCILOMYCES FUSISPORUS 3095
PALMARIUM SALINUM 6856
PALMELLOCOCCUS 5232
PALMOCLATHRUS STIPITATUS 568
PANAEOLINA FOENISECII 5758
PANAEOLUS 4680
PANAEOLUS ATER 5758
PANAEOULUS 5204
PANDORINA MORUM 2041
PANELLUS SEROTINUS 1238
PANSTRONGYLUS MEGISTUS 5937
PANUS TIGRINUS 6502
PAPULASPORA 5757
PAPULASPORA ACINOSA 3163
PAPULASPORA CANDIDA 3163
PAPULASPORA POLYSPORA 3163
PARACHILODONELLA DISTYLA SP.N. 5862
PARACINETA LIMBATA 3233
PARACOCCIDIOIDES BRASILIENSIS 929 1009
1330 1653 1654 5468 5533 5566 5633
5652 6245 6827 6857 7505
PARADINEMULA 4720
PARAHAEMOPROTEUS VELANS 5902 6480
PARAHISTOMONAS WENRICHI 6302
PARAMDEBIDIUM 42
PARAMECIUM 2738 3478 4654 4866 5486 5903
PARAMECIUM AURELIA 146 312 381 382 1288
1374 1531 1633 1792 1935 1936 2184
3122 3593 3594 4084 4311 4394 4395
5586 5760 6214 6426 6560 6577 6706
6707 6774 7215 7260 7492
PARAMECIUM BURSARIA 5556 6114 6772
PARAMECIUM CALKINSI 7199
PARAMECIUM CAUDATUM 147 548 1353 1906 2185
2558 4269 4710 4864 6143 6164 6426
6560 6577 7381 7390 7391 7712 7725
PARAMECIUM COLPIDIUM 2511
PARAMECIUM MICRONUCLEATUM 6560
PARAMECIUM MULTIMICRONUCLEATUM 64 3988 3989
PARAMECIUM PUTRINUM 4952
PARAMECIUM WOODRUFFI 6577
PARAMOEBIDIUM ARCUATUM 1786
PARAPHYSOMONAS BUTCHERI 3860
PARAPHYSOMONAS VESTITA 7043
PARARAABENA 3190
PARASTASIELLA 4720
PARAUROSTYLA 3945
PARMELIA 669 3918
PARMELIA ALMBORNII 602
PARMELIA ATROVENTRALIS 602
PARMELIA CAPERATA 670 671 5292
PARMELIA CAPERTA 4656
PARMELIA CETRATA 3284
PARMELIA CROZALSIANA 3284
PARMELIA DIADETA 602
PARMELIA DICHROMATICA 602
PARMELIA DUBIA 4657
PARMELIA ENCRUSTANS 602
PARMELIA FRONDOSA 602
PARMELIA HETERODOXA 602
PARMELIA HYPORHYTIDA 602
PARMELIA JAMESII 6471
PARMELIA LECANORICA 602
PARMELIA NEOCONGENSIS 602
PARMELIA OMPHALODES V.DISCORDANS 1537
PARMELIA PERLATA 4656
PARMELIA PERMACULATA 49
PARMELIA PHYSODES 103 670 671 1823
PARMELIA PUSTULIFERA 5849
PARMELIA SAXATILIS 4656

PARMELIA SUBDOMOKOSII 602
PARMELIA SUBRUDECTA 1337
PARMELIA SULCATA 103 670 671 3284 4657
PARMELIACEAE 601
PARMELIS QUINTARIA 602
PAXILLUS ATROTOMENTOSUS 4212
PAXILLUS INVOLUTUS 3279
PAXILLUS PAHANGENSIS SP,N. 1237
PAXILLUS PANUOIDES 4212
PECCANIA 7453
PECTINOTRICHUM LLANENSE 5146
PEDIASTRUM 2648 7360
PEDIASTRUM BORYANUM 1332
PEDINELLA HEXACOSTATA 3861
PEDINOMONADALES 6486
PEDINOMONAS 4933
PEDINOMONAS MINOR 5549
PELAGOPHYCUS PORRA 6416
PELARGONIUM ZONALE 1920
PELLICULARIA FILAMENTOSA 2750
PELLICULARIA KOLEROGA 1119
PELLICULARIA SASAKII 2750
PELOMYXA CAROLINENSIS 951
PELOMYXA ILLINOISENSIS 951
PELOMYXA PALUSTRIS 1287 7724
PELTIGERA 5364 5525
PELTIGERA APHTHOSA 6072
PELTIGERA CANINA 3919 4144 5384
PELTIGERA POLYDACTYLA 4164 4202
PELTIGERA PRAETEXTATA 4747
PELTULA BOLANDERI 4041
PELTULA CLAVATA 4041
PELTULA CYLINDRICA 4041
PELTULA EUPLOCA 4041
PELTULA MICHOACANENSIS 4041
PELTULA OBSCURANS 4041
PELTULA PLACODIZANS 4041
PELTULA TORTUOSA 4041
PELTULA ZAHLBRUCKNERI 4041
PELVETIA FASTIGIATA 5870 5871
PENICILLIUM 120 221 242 286 309 542 665
907 1015 1166 1194 1410 1544 1775
2076 2369 2408 2544 2547 2681 2761
2785 2881 2983 3089 3091 3096 3111
3114 3221 3355 3384 3425 3431 3502
3598 3645 3698 3797 3828 3836 3838
3840 4184 4438 4619 4624 4641 4744
4889 5000 5001 5149 5150 5156 5288
5303 5448 5541 5757 5770 5772 5773
5779 5783 5798 6080 6137 6175 6266
6286 6366 6425 6467 6728 7002 7011
7014 7016 7017 7189 7259 7319 7413
7684 7707 7708
PENICILLIUM ATROVENETUM 5480
PENICILLIUM AURANTIO-VIOLACEUM 4832
PENICILLIUM AURANTIO-VIRENS 5445
PENICILLIUM BAARNENSE 2182 5539
PENICILLIUM BREVICOMPACTUM 2104 4118
6375
PENICILLIUM CAMEMBERTI 2680
PENICILLIUM CANADENSE 4221
PENICILLIUM CANESCENS 3389

PENICILLIUM CASEI 6776
PENICILLIUM CASEICOLUM 4786
PENICILLIUM CHARLESII 1461 4222
PENICILLIUM CHRYSOGENUM 77 418 762 828 981 982 1395 1788 1797 2069 2149 3175 4827 4893 5141 5477 6388 7080
PENICILLIUM CITRINUM 262 1781 3629
PENICILLIUM CLAVIFORME 591 2076 2075
PENICILLIUM CLAVIGERUM 591
PENICILLIUM COMMUNE 7318
PENICILLIUM CORYMBIFERUM 591 2104 2684 2791
PENICILLIUM CRUSTOSUM 4033
PENICILLIUM CYCLOPIUM 942 943 2630 2946 4119 4186 4888 7009 7307 7318
PENICILLIUM DECUMBENS 2548
PENICILLIUM DIGITATUM 1798 2371 3505 3845 4894 5478 6409 6641 7125
PENICILLIUM DUCLAUXI 4621
PENICILLIUM DUPONTI 6009
PENICILLIUM EXPANSUM 535 1187 1192 2091 2121 2415 2757 3113 4287 5165 5506 6629 7465
PENICILLIUM FREQUETANS 1319 2946 6388 6389 7188 7682
PENICILLIUM FUNICULOSUM 2631 4180 4621 5941 6019
PENICILLIUM GLADIOLI 6055
PENICILLIUM GODLEWSKII 6389
PENICILLIUM GRISEOFULVUM 3611 4187
PENICILLIUM HUMICOLA 3095
PENICILLIUM ISLANDICUM 2029 4223 5046
PENICILLIUM ITALICUM 1798 4894 6409 7471
PENICILLIUM JANTHINELLUM 1193 6136
PENICILLIUM LILACINUM 5649 6058 6607 7250 7672
PENICILLIUM LUTEUM 3490 6388
PENICILLIUM MADRATI 3411
PENICILLIUM MELINII 2632
PENICILLIUM MULTICOLOR 3389
PENICILLIUM NIGRICANS 900 1461 6389
PENICILLIUM NOTATUM 2069 2396 2654 6009 7000 7188 7316 7410 7706
PENICILLIUM OCHRACEUM 3703
PENICILLIUM PALITANS 846
PENICILLIUM PATULUM 1781 3411 6608 7009
PENICILLIUM PICEUM 6161
PENICILLIUM PISCARIUM 1551
PENICILLIUM PUBERULUM 837
PENICILLIUM PULVILLORUM 3385
PENICILLIUM PURPUREOCENS 7318
PENICILLIUM PURPUROGENUM 3386 6039
PENICILLIUM RESTICULOSUM 4832
PENICILLIUM RESTRICTUM 3845
PENICILLIUM ROQUEFORTI 2150 2680 4225 5354
PENICILLIUM RUBRUM 2029
PENICILLIUM RUGULOSUM 2550
PENICILLIUM SHEARII 3487
PENICILLIUM SIMPLICISSIMUM 1831
PENICILLIUM SOPPII 6058 7472
PENICILLIUM SPICOLISPORUM 7251
PENICILLIUM SPICULISPORUM 178
PENICILLIUM SPINULOSUM 1574 6388
PENICILLIUM STOLONIFERUM 1789 3796
PENICILLIUM SUBLATERITIUM 3389
PENICILLIUM THOMII 1319
PENICILLIUM URTICAE 4120 4188
PENICILLIUM VARIABILE 2069 7318
PENICILLIUM VERMICULATUM 6555 7317
PENICILLIUM VIRIDICATUM 847 1730 2125 2282 3058 7318
PENICILLIUM VITALE 5355
PENICILLIUM WORTMANNI 6039
PENICILLUS DUMETOSUS 3129
PENICULISTOMA MYTILI 4693
PENIOPHORA GIGANTEA 2334 7013
PENNELLA ANGUSTISPORA 5285
PENNELLA GRASSEI 42
PENNELLA HOVASSI 42
PENNELLA SIMULII 42
PENNICILLIUM TERRESTRE 3389
PENNISETUM TYPHOIDES 507
PENTATRICHOMONAS HOMINIS 5588
PENTOPHORA 7014
PEREZIA 1893
PEREZIA PYRAUSTAE 3738 5060
PERICHAENA CHRYSOSPERMA 13
PERICHAENA MINOR 4323
PERICONIA 3280
PERICONIA CIRCINATA 3384 6655 6972
PERICONIA MACROSPINOSA 6655
PERIDERMIUM EPHEDRAE 6503
PERIDERMIUM HARKNESSII 6343 6931
PERIDERMIUM OBLONGISPORIUM 7637
PERIDINEAE 4723
PERIDINIUM 1295 2525 3246 4715 5275 7158
PERIDINIUM ACICULIFERUM 7165
PERIDINIUM BEROLINENSE 3132
PERIDINIUM CINCTUM F.WESTII 7157
PERIDINIUM GREGARIUM 2439 2523
PERIDINIUM PENARDII 2440 3132
PERIDINIUM PERNARDII 2524
PERIDINIUM SOCIALE 2439
PERIDINIUM TROCHOIDEUM 3876 5524
PERITRICHA 5229
PERITRICHIDA 694
PERONIA 5267
PERONOSPORA FARINOSA F.SP.BETAE 3532
PERONOSPORA MANSHURICA 882 4555 6371
PERONOSPORA PARASITICA 2977 3746 5711
PERONOSPORA PISI 3533
PERONOSPORA SCHACHTII 3747
PERONOSPORA TABACINA 2978 3748 5069
PERONOSPORA TRIFOLIORUM 1094
PERONOSPORA TRIFOLIUM 7618
PERONOSPORACEAE 493 494 2204 5133 6351
PERONOSPORALES 1320 3266 4677
PESTALOTIA 2544 3910
PESTALOTIA RHODODENDRI 7321
PESTALOTIA THEAE 5564 6135
PESTALOTIOPSIS 1777 3910
PESTALOTIOPSIS VERSICOLOR 349
PESTALOZZIELLA ANDESONNII 4686
PESTALOZZIELLA ARTOCARPI SP.N. 4686
PESTALOZZIELLA CIRCULARIS 4686
PESTALOZZIELLA PARVA 4686
PESTALOZZIELLA SUBSESSILIS 4686
PESTRALOTIOPSIS VERSICOLOR 1957
PETALOSPORUS AFILAMENTOSUS 6447
PETALOTRICHA AMPULLA 3194
PETRIELLIDIUM ANGUSTUM 3892
PETROGLOSSUM NICAEENSE 5877 5878 6074
PEZIZA AMMOPHILA 1863
PEZIZA CRASSA 1863
PEZIZA DARGELASII 1863
PEZIZA HERBARUM 6661
PEZIZA OSTRACODERMA 1274
PHACUS LONGICAUDA 3131
PHACUS PLEURONECTES 3131
PHACUS PYRUM 5270
PHAEASTER PASCHERI 3861
PHAEOCYSTIS 4713 5932
PHAEOCYSTIS POUCHETI 2477 3200 3357
PHAEODACTYLUM TRICORNUTUM 1390 1828 4152 4153 4233 4314 4882 5430 5524 5593 7333
PHAEOMARASMIUS CONFRAGOSULIFORMIS SP.N. 1236
PHAEONECTRIELLA LIGNICOLA 1226
PHAEOPHILA 3869
PHAEOPHYCEAE 1309
PHAEOPHYTA 645 1310 3252 4008 5463
PHAEOSACCARDINULA 5198
PHAEOSACCION COLLINSII 4
PHAEOSPHAERIA HERPOTRICHA 7671
PHAEOTREMA 3179
PHAEOTRICHUM 3892

PHAKOPSORA PACHYRHIZI 5209
PHALLUS IMPUDICUS 582 1164
PHASCOLODON VORTICELLA 5863
PHELLINUS 3279
PHELLINUS IGNIARIUS 5438
PHELLINUS LAEVIGATUS 5438
PHELLINUS NIGROLIMITATUS 4028
PHELLINUS OCCIDENTALIS 5207
PHELLINUS REPANDUS 5207
PHELLINUS TREMULAE 5438
PHELLODON 2463
PHELLODON FIBULATUS SP.N. 6459
PHELLODON NOTHOFAGI 31
PHIALOPHORA BIFORMIS SP.N. 7684
PHIALOPHORA CINERESCENS 2372 2373 2374 3784 3785 4063 4593 6973
PHIALOPHORA JEANSELMEI 941 1728 6264
PHIALOPHORA PEDROSOI 1728 6827
PHIALOPHORA RADICICOLA 378
PHIALOPHORA VERRUCOSA 6827
PHILOSTICA SOJAECOLA 6371
PHLEBIA 3279
PHLEBIA HIMALAICA SP.N. 7081
PHLYCTIDIUM 3889
PHLYCTIDIUM SCENEDESMI 1331 1332
PHLYCTOCHYTRIUM 1333 1510 4716
PHOLIOTA AURIVELLA 4062
PHOLIOTA MARGINATA 5504
PHOLIOTA MUTABILIS 3420 6019
PHOLIOTA SEPTENTRIONALIS 1876
PHOLIOTA SQUARROSA 7370
PHOLISTA OEDIPUS SP.N. 1236
PHOMA 3274 3280 4624 5106 5396 5757 6655 7005
PHOMA APIICOLA 934
PHOMA BETAE 3755 5119 6554
PHOMA DESTRUCTIVA 2375
PHOMA DOLIOLUM 7126
PHOMA EXIGUA 2378 3786 3839 4594 4622
PHOMA EXIGUA VAR EXIGUA 7672
PHOMA EXIGUA VAR FOVEATA 7672
PHOMA EXIGUA VAR.EXIGUA 1111 5120
PHOMA EXIGUA VAR.FOVEATA 2064
PHOMA EXIQUA 358
PHOMA FOVEATA 7704
PHOMA HERBARUM 6870
PHOMA HERBARUM VAR.MEDICAGINIS 6984
PHOMA HOEHNELII 7126
PHOMA HUMICOLA 3389
PHOMA LIRELLA VAR SEDI 7126
PHOMA MEDICAGINIS 6974
PHOMA PIGMENTIVORA 5446
PHOMA ROSSIANA 6296
PHOMA STRASSERI 2376
PHOMA TABIFICA 7126
PHOMA TYPHARUM 1327
PHOMATOSPORA COPROPHILA 3086
PHOMOPSIS CARICAE PAPAYAE 3787
PHOMOPSIS CITRI 5834
PHOMOPSIS EUGENIAE SP.N. 4595
PHOMOPSIS LEPTOSTROMIFORMIS 6296
PHOMOPSIS LEPTOSTROMOIDES 6296
PHOMOPSIS ROSSIANA 3387 6296
PHOMOPSIS THEAE 2377
PHOMOPSIS VITICOLA 3788 6975
PHORMIDIUM 606 2417 2418 5399 5905
PHORMIDIUM AMBIGUUM 3434
PHORMIDIUM AUTUMNALE 2428
PHORMIDIUM CORIUM 7059
PHORMIDIUM FAVEOLARUM 2040
PHORMIDIUM FOVEOLARUM 277 1825
PHORMIDIUM LURIDUM 2040 7264 7430
PHORMIDIUM LURIDUM VAR.OLIVACEAE 192
PHORMIDIUM PERSICINIUM 2564
PHORMIDIUM PERSICINUM 2040
PHORMIDIUM RAMOSUM 7161
PHORMIDIUM UNCINATUM 2428
PHRAGMIDIUM ACUMINATUM 7184
PHRAGMIDIUM ANDERSONII 7184
PHRAGMIDIUM ARCTICUM 7184
PHRYGANELLA 4630
PHYCOMYCES 6828
PHYCOMYCES BLAKESLEEANUS 19 725 1511 1547 2063 2694 2695 2696 2697 3218 329 3411 3962 3963 4207 4208 4324 476 5193 6035 6499 7283
PHYCOMYCES MULTICOLOR 7001
PHYCOMYCES NITENS 160
PHYCOMYCES ROQUEFORTI 7001
PHYLLACHORA DENDROCALAMII 3896
PHYLLACHORA LEEA-ELATAE 1949 2543
PHYLLACHORA MUSICOLA 6915
PHYLLACHORELLA MICHELIAE 1949 2543
PHYLLACTINIA CORYLEA 82 6925
PHYLLACTINIA GUTTATA 3760 4736 5196
PHYLLOPHORA 3885
PHYLLOPHORA CRISPA 5879
PHYLLOPHORA HEREDIA 5879
PHYLLOPHORA PSEUDOCERANOIDES 5879
PHYLLOPHORA TRUNCATA 3207
PHYLLOPORUS NOVAE-ZELANDIAE 31
PHYLLOPORUS RHODOXANTHUS 6386
PHYLLOPORUS SPP.N. 1237
PHYLLOSTICTA 3430
PHYLLOSTICTA ANTIRRHINI 119
PHYLLOSTICTA BIGNONICOLA 3176
PHYLLOSTICTA CYCADINA 517
PHYLLOSTICTA DESTRUCTIVA 2378
PHYLLOSTICTA DIGITALIS 3388
PHYLLOSTICTA MAYDIS 2466
PHYLLOSTICTA PANICILLARIAE 3766
PHYMATOTRICHUM OMNIVORUM 2734 3780 5394 7288
PHYSALOSPORA 4573
PHYSALOSPORA TUCUMANENSIS 7444
PHYSARELLA OBLONGA 7061
PHYSARUM 5903 6158
PHYSARUM DAAMSII 1846
PHYSARUM FLAVICOMUM 1912 2484 6584
PHYSARUM FLAVICORNIUM 7061
PHYSARUM GYROSUM 7061
PHYSARUM MELLEUM 7061
PHYSARUM-POLYCEPHALUM 13 139 229 230 616 702 792 793 1391 1974 1975 1998 2449 2485 2569 2587 3448 4092 413 4375 4675 4701 5175 5241 5466 588 5968 6426 6437 6567 6758 7060 706 7203 7267 7362 7382
PHYSARUM PUSILLUM 300
PHYSARUM RIGIDUM 1849
PHYSARUM ROSEUM 1849
PHYSCIA 669
PHYSCIACEAE 601
PHYSCIA DIMIDIATA CRUSTATA 673
PHYSCIA DIMIDIATA F.ORNATA 673
PHYSCIA DIMIDIATA LACTEA 673
PHYSCIA INTERMEDIA 5933
PHYSCIA OBSCURA 6229
PHYSCIA ORBICULARIS 5933
PHYSCIA SUBALBINEA 672
PHYSCIA VAINIOI 674
PHYSODERMA 6324
PHYSODERMA MAYDIS 2990
PHYTHIUM APHANIDERMATUM 7625
PHYTHIUM HYPOGENUM 6325
PHYTOMONAS ELMASSIANI 3922
PHYTOPHTHORA 324 1100 1119 1755 2985 3384 4604 4677 5073 5714 5715 5716 6746 6899
PHYTOPHTHORA CACTORUM 958 2813 4616 5499 6051 6388 7441 7466
PHYTOPHTHORA CAMBIVORA 7441
PHYTOPHTHORA CAPSICI 4376 7406
PHYTOPHTHORA CINNAMOMI 90 2979 3083 3453 5503 6367 6389 6996 7282 7441 7619 7683
PHYTOPHTHORA CITRICOLA 7441

PHYTOPHTHORA CITROPHTHORA 2111 7441 7625
PHYTOPHTHORA CRYPTUGAEA 5396 7441
PHYTOPHTHORA DRESCHLERI 7441 1095 7620
PHYTOPHTHORA ERYTHROSEPTICA 2454
PHYTOPHTHORA FRAGARIAE 5070 5071 5072
PHYTOPHTHORA HEVEAE 958
PHYTOPHTHORA INFESTANS 348 495 496 795 1096 2316 2317 2454 2749 2980 2981 3000 3074 3749 4536 4537 4538 5557 5712 5759 6368 7621
PHYTOPHTHORA MEGASPERMA 832 1271 3213 3750 5557 6898
PHYTOPHTHORA MEGASPERMA VAR SOJAE 2982 7441
PHYTOPHTHORA MEGASPERMA VAR.SOJAE 1097 1914 5557 7620 7622 7623
PHYTOPHTHORA NICOTIANAE 4539
PHYTOPHTHORA NICOTIANAE F.PARASITICA 6997
PHYTOPHTHORA NICOTIANAE VAR NICOTIANAE 7441
PHYTOPHTHORA NICOTIANAE VAR PARASITICA 7441
PHYTOPHTHORA NICOTIANAE VAR.PARASITICA 1098 4539
PHYTOPHTHORA PALMIVORA 349 497 498 499 1098 1099 1162 1269 1270 1915 1977 2318 2319 2983 3751 3964 4536 4540 4541 5469 5557 5971 7624
PHYTOPHTHORA PARASITICA 20 618 1754 1977 2455 2688 2984 3084 4536 5557 7625
PHYTOPHTHORA PARASITICA VAR.NICOTIANAE 2153 2320 7109
PHYTOPHTHORA PHASEOLI 5713
PHYTOPHTHORA SYRINGAE 6898 7441
PICHIA 586 2598 3269 4215 5786 6177 7220 7297
PICHIA BESSEYI SP.N. 3897
PICHIA CROSSOTARSI 1864 2459
PICHIA ETCHELLSII 6012
PICHIA MEMBRANEFACIENS 1188 2775
PICHIA MICROSPORA 1864 2459
PICHIA MUCOSA 1865 2460
PICHIA NONFERMENTANS 3908
PICHIA PINI 1321
PICHIA PINUS 6012
PICHIA SARGENTENSIS 1865 2460
PICOA 23
PIGGOTIA SUBSTELLATA 5763
PIKEA CALIFORNICA 2483 3137
PILAIRA ANOMALA 3849
PILEOLARIA TEREBINTHI 585
PILOBOLUS CRYSTALLINUS 7064 7465
PILOBOLUS KLEINII 7465
PILOBOLUS KLEMN VAN TIEGHEM 7064
PILOBOLUS UMBONATUS 7465
PILOPHORUS 4689
PIMEPHALES 4009
PINNULARIA 3125 3253 5267
PINNULARIA CARDINALICULUS 7059
PINNULARIA TERMITINA 4652
PIPTOCEPHALIS FIMBRIATA SP.N. 4617
PIPTOCEPHALIS VIRGINIANA 2321 4535
PIRICULARIA GRISEA 5753 7670
PIRICULARIA ORYZAE 514 2758 3081 4163 4301 4302 7320 7412
PIROPLASMA PARVA 4521
PIROPLASMIDA 7088
PISOLITHUS TINCTORIUS 3807 6386
PISTILLARIA FUSIFORMIS 5830
PISTILLARIA TODEI 4737
PITHIACAE 4677
PITHOMYCES CHARTARUM 461 1956 5121 5122 6643
PITHOPHORA 2648
PITHYA 6545
PITYROSPORUM ORBICULARE 1027 2902 3506 3648
PITYROSPORUM OVALE 3506
PITYROSPORUM PACHYDERMATIS 6218
PLACOPSIS 128 5930
PLAGIODISCUS COSTATUS 5181
PLAGIODISCUS GLABER 5181
PLAMINVOLUTA CARINATA 4049
PLANCTOMYCES BEKEFII 5846
PLANCTOMYCES CONDENSATUS 5846
PLANCTOMYCES GRACILIS 5846
PLANCTOMYCES KLJASMENSIS 5846
PLASMODIOPHORA BRASSICAE 3085 3214 3809
PLASMODIUM 365 992 1049 1050 1051 1052 1651 1652 1686 1708 1717 1898 2271 2765 2848 2931 2932 2964 4418 4432 4487 4488 4526 4989 5037 5067 5488 5591 5648 6142 6222 6223 6224 6225 6281 6785 6786 6787 6855 7500 7502 7572 7573 7574 7600
PLASMODIUM ACHIOTENSE SP.N. 4054
PLASMODIUM BASILISCI 4054
PLASMODIUM BERGHEI 145 269 405 425 426 483 487 489 919 920 1084 1085 1714 2215 2216 2302 2303 2304 2305 2310 2509 2642 2763 2802 2869 2962 2963 2965 2966 2967 3512 3513 3514 3515 3516 3517 3518 3561 3620 3621 3707 4083 4309 4310 4431 4522 4523 4862 4863 4900 4982 4983 4987 5061 5062 5064 5228 5361 5519 5694 5695 5697 6140 6141 6238 6479 6741 6802 6804 6807 7423 7608 7609
PLASMODIUM BERGHEI BERGHEI 365 484 2301 4901 5698
PLASMODIUM BERGHEI YOELII 405 1065 1666 2217 5696 6314 7513 7514 7610
PLASMODIUM BRASILIANUM 1649 1650 2200 7515
PLASMODIUM CHABAUDI 784 785 1045 4986
PLASMODIUM COATNEYI 486 2308 5063 6315
PLASMODIUM CYNOMOLGI 2200 3608 3739
PLASMODIUM CYNOMOLGI BASTIANELLII 2871 2968
PLASMODIUM CYNOMOLGI CEYLONENSIS 2974
PLASMODIUM FALCIPARUM 416 954 990 991 1046 1047 1048 1714 1715 1716 1932 2141 2201 2202 2203 2215 2218 2260 2261 2262 2263 2264 2265 2266 2267 2268 2306 2308 2846 2854 2870 2927 2928 2929 2969 3676 3677 3684 3740 4351 4413 4414 4415 4482 4483 4484 4485 4932 4966 4967 4968 4984 4986 4988 5032 5033 5034 5590 5645 5646 5647 5699 5700 5701 6279 6280 6782 6783 6784 6803 6807 6843 6844 6845 6846 7197 7496 7497 7498 7515 7566 7567 7568 7569 7570 7611
PLASMODIUM FALLAX 4987
PLASMODIUM FLORIDENSE 134
PLASMODIUM FRAGILE 2974
PLASMODIUM GALLINACEUM 2107 2307 2962 2966 2970 3512 3513 3515 3741 3742 3941 4985 4986 5064 5228 5361 5809 6804 7612
PLASMODIUM GONDERI 2200
PLASMODIUM HUFFI 2309
PLASMODIUM HYLOBATI 3942 4524
PLASMODIUM INVI 2200
PLASMODIUM KNOWLESI 345 486 487 688 689 2200 2308 2764 2971 2972 2973 3678 4931 4983 4986 4987 4988 5228 5493 6513 7613
PLASMODIUM LOPHURAE 105 190 4986 5142 5228 5702 6741
PLASMODIUM MALARIAE 416 485 990 991 1714

PLASMODIUM MALARIAE (CONT'D) 1748 2200 2268 2871 4414 4415 4485 4932 5035 5590 5645 6784 6851 7498 7499 7566 7571
PLASMODIUM NUCLEOPHILUM 1897
PLASMODIUM NUCLEOPHILUM TOUCANI 1897 2309
PLASMODIUM OVALE 416 458 990 991 2200 2269 4415 4988 5036 5590
PLASMODIUM PARANUCLEOPHILUM SP.N. 1897
PLASMODIUM RODHAINI 2200
PLASMODIUM SCHWETZI 2200
PLASMODIUM SHORTTI 2974
PLASMODIUM SIMIOVALE 2974 4525
PLASMODIUM SIMIUM 2200 2203
PLASMODIUM SUBPRAECOX 5703
PLASMODIUM TROPIDURI 490 5361
PLASMODIUM VINCKEI 1087 6895
PLASMODIUM VINCKEI CHABAUDI 1933 4267
PLASMODIUM VIVAX 366 416 991 1048 1714 1716 2200 2269 2270 2866 2870 2871 2927 2928 2929 2930 3679 3684 3745 4413 4486 4932 4988 5228 5590 5645 5704 6783 6784 6807 6845 6846 7515
PLASMOPARA HALSTEDII 6900
PLASMOPARA HELIANTHI 1756 4677
PLATYMONAS SUECICA 2807
PLATYMONAS VIRIDIS 2768
PLATYMONAS VIRIDIS SP.N. 7354
PLATYMORAS 1969
PLECTONEMA 606 4806 5399
PLECTONEMA BORYANUM 1586 4271 5363 6519 6708
PLEISTOPHORA 106 3744
PLEISTOPHORA CHAPANI SP.N. 4533
PLEISTOPHORA SCHUBERGI HYPHANTRIAE 6894 7614
PLENODOMUS DESTRUENS 5075
PLENODOMUS LINGAM 7005
PLEONOSPORIUM 1211
PLEOSPORA BJOERLINGII 350 3755
PLEOSPORA HERBARUM 1275 6339
PLEOSPORA INFECTORIA 5341
PLEOSPORACEAE 4885
PLEURASIGA CUPULA 7085
PLEURASIGA MINIMA VAR.MINUTA 7085
PLEURASTRUM 569
PLEURELLA 4029
PLEUROCHLORIS COMMUTATA 5 7041
PLEUROCHLORIS MAGNA 5 6837 7041
PLEUROCHLORIS MEIRINGENSIS 7041
PLEUROCHLORIS POLYCHLORIS 3245
PLEUROCHRYSIS SCHERFFELII 6029
PLEURONEMA CORONATUM 7199
PLEUROSIGMA 5268
PLEUROTAENIUM EHRENBERGII 3953
PLEUROTAENIUM EUGENEUM FORMA MINOR FORM.N. 4718
PLEUROTAENIUM TRABECULA VAR.MEDIOLAEVE 3953
PLEUROTAENIUM TRABECULA VAR.RECTUM 4130
PLEUROTUS DRYINUS 4062
PLEUROTUS OSTREATUS 3420 6600 7701
PLEUROTUS SAPIDUS 6768
PLICARIA HIMALAYENSIS SP.N. 6451
PLOIODERMA HEDGCOCKII 2327
PLOIODERMA LETHALE 2327
PLUTEUS 3156
PNEUMOCYSTIS 5895
PNEUMOCYSTIS CARINII 368 1053 1719 1720 3686 4489 4490 6255 6283 6738 6854 7522 7575 7576
POCILLOPORA DAMICORNIS 1175
POCULUM RUBORUM 6441
PODOPHRYA FIXA 7712
PODOSPHAERA 5196
PODOSPHAERA LEUCOTRICHA 84 1112
PODOSPORA 3268
PODOSPORA ALOIDES 1322
PODOSPORA ANSERINA 83 625 1608 1609 1916 1981 2494 2599 2600 2601 5981 6195 6542 7481
PODOSPORA APPENDICULATA 3086
PODOSPORA ARIZONENSIS 3966
PODOSPORA CURVULA 3086
PODOSPORA DAGOBERTII 3086
PODOSPORA DECIPIENS 6542
PODOSPORA VESTICOLA 3086
PODOXYPHIUM 1957
POLIOTELIUM HYALOSPORUM 1875
POLLACCIA 6341
POLYARTHRA HEMATA 4263
POLYBLASTIOPSIS 1882
POLYCORYNE GARDNERI 7057
POLYCYSTIS AERUGINOSA 5169
POLYEDRIELLA HELVETICA 5 7041
POLYKRIKOS SCHWARTZI 1587
POLYKRIKOS 2525
POLYMASTIGMA 3196
POLYMYXA BETAE 2486
POLYPLASTRON MULTIVESICULATUM 492 1352
POLYPORACEAE 34 5896
POLYPORUS 659 3279 4169 4854 7338
POLYPORUS ABIETINUS 3420
POLYPORUS ADUSTUS 7014
POLYPORUS DICHROUS 4213
POLYPORUS HIRSUTUS 3420 7014
POLYPORUS HISPIDUS 6949
POLYPORUS IGNIARIUS 3164
POLYPORUS NIGRICANS 3164
POLYPORUS RUGULOSUS 7070
POLYPORUS SCHULZERI 6452
POLYPORUS SPRAGNEI 7702
POLYPORUS SULPHUREUS 7702
POLYPORUS TUMULOSUS 3420
POLYPORUS VERSICOLOR 3420 7013 7014 7404
POLYRHABDINA BOGOLEPOVAE SP.N. 1900
POLYRHABDINA CIRRATULUS 1900
POLYSIPHONIA 7022
POLYSIPHONIA BAJACALI 5825
POLYSIPHONIA LANOSA 4699
POLYSIPHONIA URCEOLATA 4764 4765
POLYSPHONDYLIUM 5903
POLYSPHONDYLIUM PALLIDUM 696 1721 1946 4614 5371 7363 7681
POLYSPHONDYLIUM VIOLACEUM 4614 5371 7681
POLYSPORA LINI 518
POLYSTICTUS SANGUINEUS 3420
POLYSTICTUS VERSICOLOR 583 3421 5890 6077 6388 7070
POLYSTIGMA PUSILLUM 98
POLYSTIGMA 98
POLYTOMELLA CAECA 8 3308
PONTIGULASIA 678 4630
PORIA 7338
PORIA CARNEOPALLENS 7073
PORIA HYPOBRUNNEA 7073
PORIA HYPOLATERITIA 7073
PORIA INCRASSATA 5160
PORIA MONTICOLA 1190 3165 3501 7070 7404
PORIA PLACENTA 7013
PORIA PORPHYROPHAEA 7073
PORIA SUBACIDA 3420 6388
PORIA VINCTA 7073
PORIA WEIRII 90 2751 3093 5730 6000 6367
PORITES COMPRESSA 649
POROLITHON 649
PORPHYRA 3883 7051
PORPHYRA ABBOTTAE 3886
PORPHYRA AMPLISSIMA 5825
PORPHYRA CAPENSIS 3527
PORPHYRA FUCICOLA 3886
PORPHYRA MINIATA 5825
PORPHYRA MINIATA F.CUNEIFORMIS 5825
PORPHYRA NORRISII 3886
PORPHYRA PAPENFUSSI 3886

PORPHYRA PSEUDOLANCEOLATA 3886
PORPHYRA SANJUANENSIS 3886
PORPHYRA TENERA 863 1355 3348 6397 6682 7433
PORPHYRA TORTA 3886
PORPHYRA UMBILICALIS 7022
PORPHYRA YEZOENSIS 791 1355 3349 3528 3568 6682
PORPHYRELLUS PORPHYROSPORUS 27
PORPHYRELLUS SUBFLAVIDUS 27
PORPHYRIDIUM 4651
PORPHYRIDIUM AERUGINEUM 1997 2564 3403 4799 7281
PORPHYRIDIUM CRUENTUM 1433 1488 1508 1829 1997 2446 3371 4091 7329
PORPHYRIDIUM PURPUREUM 2446
PORPHYROSIPHON 6518
PORTERINEMA FLUVIATILE 4721
PRASIOLA MEXICANA 3247
PRASIOLA STIPITATA 6534
PREDAEA WELDII 2445
PREUSSIA 3892
PRINGSHEIMIELLA 3869
PRINGSHEIMIELLA CONCHYLIOPHILA 5186
PROACTINOMYCES FRUCTIFERI 340
PROPLECTELLA ANGUSTIOR 3194
PROROCENTRUM 6398
PROROCENTRUM GRACILE 5818
PROROCENTRUM MICANS 1361 1563 2430 5524 7632
PRORODON 1905
PRORODON BRASILIENSIS SP.N. 6561
PROTEROMONAS 2951 5067
PROTHECA TRISPORA 2221
PROTOCERATIUM RETICULATUM 5818
PROTOCOCCACEAE . 2531
PROTOCOCCUS 3246
PROTOCOCCUS VIRIDIS 6712
PROTOCUCURBITELLA CORONIFORMIS F.N. 1255
PROTOMYCES 4078
PROTOSIPHON BOTRYOIDES 4356
PROTOSTROMA INDICA 3916
PROTOTHECA 2221
PROTOTHECA CIFERRII 5815
PROTOTHECA FILAMENTA 5815
PROTOTHECA FILAMENTA SP.N. 5815
PROTOTHECA MORIFORMIS 5815
PROTOTHECA PORTORICENSIS 5815
PROTOTHECA SEGBWEMA 5815
PROTOTHECA SEGBWEMA SP,N. 2222
PROTOTHECA STAGNORA 5815
PROTOTHECA WICKERHAMII 2220 2873 5815
PROTOTHECA 20PFII 1389 2221 5815 6489
PRYMNESIUM PARVUM 217 6398
PSALLIOTA COMTULA 4026
PSALLIOTA SILVATICA 4026
PSALLIOTTA ARVENSIS 4107
PSAMMOMITRA 3945
PSATHYRELLA AMSTELODAMENSIS 1877
PSATHYRELLA ATOMATA 5758
PSATHYRELLA NARCOTICUS 1877
PSATHYRELLA PERVELATA 1877
PSEUDANABAENA 6836
PSEUDEVERNIA FURFURACEA 4657
PSEUDOARACHNIOTUS 1855
PSEUDOARACHNIOTUS TROCHLEOSPORUS 6467
PSEUDOCALANUS MINUTUS 6341
PSEUDODIAPTOMUS CORONATUS 5802
PSEUDODIPLONEMATACEAE 1834 3123
PSEUDOFAVOLUS CUCULLATUS 3278
PSEUDOFAVOLUS MIQUELII 3278
PSEUDOFAVOLUS ORINOCENSIS 3278
PSEUDOFAVOLUS PELTATUS 3278
PSEUDOFAVOLUS PUSTULATUS 3278
PSEUDOFISTULINA BRASILIENSIS 3902
PSEUDOMASTIGERINA 3290
PSEUDOHELOTIUM ALAUNAE SP.N. 2458
PSEUDOKEPHYRION 1204
PSEUDOKEPHYRION KLARNETII 3255
PSEUDOMASSARIA SEPINCOLAEFORMIS 1947
PSEUDONECTRIA RETICULOSPORA SP.N. 6442
PSEUDONYCTOTHERUS CORLISSI 4055
PSEUDOPERONOSPORA 2986
PSEUDOPERONOSPORA CUBENSIS 76 6091 7626
PSEUDOPERONOSPORA HUMULI 2322 2489
PSEUDOPEZIZA MEDICAGINIS 6974
PSEUDOPEZIZA RIBIS 2997
PSEUDOPEZIZA TRACHEIPHILA 5082
PSEUDOPEZIZA TRIFOLII 1113
PSEUDOPHAEOTRICHUM 1867
PSEUDOPHYCODRYS RAINOSUKEI 1213
PSEUDOPLEA TRIFOLII 5772
PSEUDOROBILLARDA 5219
PSEUDOSTREBLONEMA 5187
PSEUDOTRICHONYMPHA 6704
PSEUDOUROSTYLA 3945
PSILOCYBE 5204
PSILOCYBE AGRARIELLA 4026
PSILOCYBE CAERULESCENS 3166
PSILOCYBE LAZOI SP.N. 1236
PSILOCYBE MEXICANA 2027
PTEROCLADIA BARTLETTII VAR.MUSCIFORMIS 3259
PTEROPODA [redacted]
PTEROSIPHONIA CHLOROPHYLLA 3527
PTEROSIPHONIA COMPLANATA 4003
PTERULA 6504
PTERULA MULTIFIDA 6552
PTERYGOPHORA 6416
PTILOTA PECTINATA 3999
PTILOTHAMNION CODICOLUM 1211
PTYCHOGASTER ALBUS 6452
PTYCHOGASTER FULIGINOIDES 6452
PUCCINIA 4227 7119
PUCCINIA ANOMALA 5737
PUCCINIA ARACHIDIS 5731 5732 6931
PUCCINIA ARCHIBACCHARIDIS SP.N. 7638
PUCCINIA ASARINA 7184
PUCCINIA ASPARAGI 3789
PUCCINIA ASPERULAE-ODORATAE 7184
PUCCINIA BAKOYANA 7185
PUCCINIA BAPHIAE 1875
PUCCINIA BUTLERI 1120
PUCCINIA CARDUORUM 585
PUCCINIA CARICIS-SHEPHERDIAE 503
PUCCINIA CARTHAMI 1765 7118
PUCCINIA CARTHARNI 6368
PUCCINIA CHONDRILLINA 1570 1766 1767
PUCCINIA CITRINA 4736
PUCCINIA CORONATA 394 2119 3074 3075 4556 5733 6099 7639
PUCCINIA CORONATA VAR AVENAE 1121 3003 3004 7640
PUCCINIA DURANTII SP.N. 7638
PUCCINIA FRAGOSOANA 7185
PUCCINIA GLAMARUM 6346
PUCCINIA GRAMINIS 35 203 353 395 870 939 1622 2335 2336 3005 3006 3010 3075 3589 4254 5733 6344 6345 6933 6934 7641 7648
PUCCINIA GRAMINIS F.SP.SECALIS 6935
PUCCINIA GRAMINIS F.SP.TRITICI 1768 1769 1770 2338 2339 2499 2651 3010 3761 3762 3972 4557 4559 4706 5081 6460 6748 6935 6936
PUCCINIA GRAMINIS SECALIS 3589
PUCCINIA GRAMINIS TRITICI 1122 2337 2726 3589 4558 6346 6347
PUCCINIA GRAMINIS VAR TRITICI 2677
PUCCINIA GRAMINIS VAR.TRITICI 1523 4253 5084 5304
PUCCINIA HELIANTHI 5734 6368 7339 7687 7635
PUCCINIA HORDEI 1623 2340 7642
PUCCINIA HYDROCOTYLES 7185
PUCCINIA HYSTERIUM 6937

PUCCINIA LATERITIA 7185
PUCCINIA LOUDETIAE 7185
PUCCINIA MELICAE 7184
PUCCINIA MEVAUGHII SP.N. 7638
PUCCINIA PELARGONII-ZONALIS 1920 2498
PUCCINIA PENNISETI 910 3766
PUCCINIA PERSISTENS 3007
PUCCINIA PIMPINELLAE 585
PUCCINIA POACUM 6368
PUCCINIA POLYSORA 660
PUCCINIA PRENANTHIS PURPUREAE 585
PUCCINIA PUNCTIFORMIS 6368
PUCCINIA PURPUREA 3008
PUCCINIA RECONDITA 910 1122 1769 2177 2336 3009 3010 3011 3074 3763 3793 3972 4562 5083 5084 5735 6342 6345 6346 6368 6368 6938
PUCCINIA RECONDITA F.SP.TRITICI 6936
PUCCINIA RUFIPES 7185
PUCCINIA SANICULAE 7184
PUCCINIA SMILACIS-KRAUSSIANAE SP.N. 7185
PUCCINIA SPOROBOLI VAR.ROBUSTA 626
PUCCINIA STOMATIFERA SP.N. 7638
PUCCINIA STRIIFORMIS 1122 1125 1771 3012 3021 3765 5210 5737 6349 6368 6939
PUCCINIA SUBNITENS 626
PUCCINIA UROSPERMI 585
PUCCINIA ZOYSIAE 2341 5085
PUCCINIASTRUM EPILOBII 503
PUCCINIASTRUM SPARSUM 503
PUCCINIOSIRA 7638
PULLULARIA 547 2785 4624 6032
PULLULARIA PULLULANS 816 961 1170 2092 2206 3360 4873 6676
PULVINULA ETIOLATA 658
PUNCTARIACEAE 3958
PUSTULINA 1867
PUSTULINA CUPULARIS 658
PYCNIDIOPHORA MULTISPORA 6555
PYLARELLA LITTORALIS 3606
PYRAMIMONAS INCONSTANS 6398
PYRENOCHAETA 941 5757
PYRENOCHAETA LYCOPERSICI 1165 6976
PYRENOCHAETA ROMERCI 2262
PYRENOCHAETA TERRESTRIS 1832 5123 5941
PYRENOMYCETES 1324
PYRENOPEZIZA INORNATA SP.N. 2458
PYRENOPHORA 4682
PYRENOPHORA AVENAE 1146 4033
PYRENOPHORA ERYTHROSPILA SP.N. 7066
PYRENOPHORA TRICHOSTOMA 3756 7122
PYREROCHAETA TERRESTRIS 2787
PYRICULARIA 6596
PYRICULARIA GRISEA 2341
PYRICULARIA ORYZAE 331 974 2126 4895 4896 5752 6977 6988
PYROCYSTIS ACUTA 5867
PYROCYSTIS ELEGANS 3877
PYROCYSTIS FUSIFORMIS 3877 5236
PYROCYSTIS FUSIFORMIS F.BICONICA 5868
PYROCYSTIS FUSIFORMIS F.FUSIFORMIS 5868
PYROCYSTIS LANCEOLATA 3877
PYROCYSTIS NOCTILUCA 5236
PYROCYSTIS PSEUDONOCTILUCA 5868
PYRODINIUM BAHAMENSE 2525 4011 5818
PYRONEMA DOMESTICUM 263 6092
PYROPHACUS HOROLOGIUM 2441
PYROPHACUS STEINII 2441
PYROPHACUS VANCAMPOAE 2441
PYRROPHYTA 653 3864
PYRSONYMPHA 7379
PYTHIUM 116 233 286 324 500 1753 1755 2110 2989 2990 3264 5074 5396 5753 6367 6369 6379 6997 7109 7397
PYTHIUM AFERTILE 3450
PYTHIUM APHAMDERMATUM 1100
PYTHIUM APHANIDERMATUM 619 883 1216 2987 7674
PYTHIUM BUTLERI 7397
PYTHIUM DEBARYANUM 90 883 2987 4534 5518 6901
PYTHIUM DELENSE 3752
PYTHIUM DIMORPHUM 1853 3148
PYTHIUM DISSOTOCUM 6325
PYTHIUM GRAMINICOLA 1101 2323
PYTHIUM IRREGULARE 3500 3809 6325
PYTHIUM MIDDLETONII 1216
PYTHIUM MYRIOTYLUM 7397 7674
PYTHIUM PERNICIOSUM 6325
PYTHIUM PORPHYRAE 7110
PYTHIUM ROSTRATUM 6325
PYTHIUM SP A-6 7282
PYTHIUM SPLENDENS 6902
PYTHIUM SYLVATICUM 90 1787 5558 6325
PYTHIUM TARDICRESCENS 2323 6326
PYTHIUM ULTIMUM 90 263 883 1160 2397 2987 2988 4542 6325
PYXIMA SP. 2316
PYXINE ENDOCHRYSINA 4229
PYXINIA CRYSTALLIGERA 6163

QUADRULELLA 4630
QUINQUELOCULINA RHODIENSIS 6421

RAABENA 3190
RACHOMYCES SCHWEITZERI 6543
RADIOLARIA 1883 6856
RADIOMYCES EMBREEI 160
RALFSIA VERRUCOSA 72 1209
RAMALINA ALMQUISTII 5930
RAMALINA CRASSA 5525
RAMALINACEAE 601
RAMARIA APICULATA 835
RAMARIA FLACCIDA 6548
RAMARIA MOELLERIANA 6548
RAMARIA SUBAURANTIACA 6548
RAMULARIA CARTHAMI 1765 2072
RAMULARIA PITERCKA SP.N. 6978
RAMULARIA PRIMULAE 1147
RAMULARIA TULASNEI 502
RAPHONEIS SURIRELLA 3
RASKYELLA CALICIFORMIS 6709
RASKYELLA PECKI 6709
RASKYELLA PECKI GANESENSIS 6709
RASKYELLA PECKI GANESENSIS SUBSP.N. 6431
RASKYELLA PECKI PECKI 6431
RAVENELIA HOBSONI 1281 5893
RAVENELIA TASLIMII 6461
REMISPORA 1960 3280
REOPHAX 7191
RETORTAMONAS 2853
REVENELIA BREYNIAE 910
REVENELIA EMBLICAE 910
REVENELIA ORNATA 910
RHABDONEMA ARCUATUM 5268
RHABDOSPORA AVICENNIAE SP.N. 3280
RHINOSPORIDIUM 6828
RHINOSPORIDIUM SEEBERI 1013 2248 5017
RHIPILIA DIAPHANA 1312
RHIPILIA ORIENTALIS 1312
RHIZINA UNDULATA 6916
RHIZIONELLA TENUIS 1891
RHIZOCARPON CANDIDUM 128
RHIZOCARPON GEOGRAPHICUM 128
RHIZOCHRYSIS 3856
RHIZOCLONIUM 2658
RHIZOCLONIUM HIEROGLYPHICUM 9
RHIZOCTONIA 519 520 1148 1247 1753 3092 3384 3916 4603 5133 6385 6388
RHIZOCTONIA FRAGARIAE 521
RHIZOCTONIA LEGUMINICOLA 4189
RHIZOCTONIA MUCOROIDES 63
RHIZOCTONIA SOLANI 83 90 179 263 265 530

RHIZOCTONIA SOLANI (CONT'D) 817 1169 2105
2397 3035 3059 3089 3507 3809 3915
4364 4597 4687 5124 5518 5759 6106
6135 6138 6326 6389 6700 6733 6979
7082 7674
RHIZOCTONIA VIOLACEA 3789
RHIZOGLYPHUS ECHINOPUS 542
RHIZOPHAGUS LITCHII SP,N. 1793
RHIZOPHLYCTIS 1333 1510
RHIZOPHYDIUM 116 1333 1510
RHIZOPODA 3864 7687
RHIZOPOGON 4332
RHIZOPOGON LUTEOLUS 1323 7002
RHIZOPOGON ROSEOLUS 3805
RHIZOPOGON VINICOLOR 90 3806
RHIZOPUS 221 427 1670 2544 2590 2791 2991
3111 3431 4096 4225 4438 4641 4838
4839 5723 5734 5757 5773 5776 5797
6064 6366 6829 7002 7001 7016 7259
7707
RHIZOPUS ARRHIZUS 2043 2044 3315 4095 5500
5772 5789 6036 7293 7579
RHIZOPUS CHINENSIS 726 3454 5413
RHIZOPUS CHINENSIS VAR,LIQUEFACIENS 5413
RHIZOPUS CHLAMYDOSPORUS 5413
RHIZOPUS COHNII 7579
RHIZOPUS JAPONICUS 3498
RHIZOPUS JAVANICUS 5413
RHIZOPUS MICROSPORUS 4161
RHIZOPUS NIGRICANS 930 1454 2022 2043 2044
2757 2785 3095 3571 4156 4209 4287
5506 5799 7413 7684
RHIZOPUS NIGRIFICANS 6397
RHIZOPUS NIVEUS 1392 3316 4114 4768
RHIZOPUS OLIGOSPORUS 160 5413
RHIZOPUS ORYZAE 160 727 5413 5789 7579
RHIZOPUS RHIZOPODIFORMIS 160
RHIZOPUS SEXUALIS 1854
RHIZOPUS STOLONIFER 77 99 160 1553 2085
2369 4642 5158 5972 6629 7012 7698
RHIZOPUS SUINUS 7579
RHIZOSOLENIA 1297 1295
RHIZOSOLENIA ALATA 4012
RHIZOSOLENIA CALCARAVIS 4725
RHIZOSOLENIA DELICATULA 3241 4005 6630
RHIZOSOLENIA FRAGILISSIMA 1969
RHIZOSOLENIA FRAGILLISSIMA 2529
RHIZOSOLENIA STOLTERFOTHII 4723
RHODOCHAETE PARVULA 3259
RHODOCORTON PENICILLIFORME 6534
RHODOCYBE ASTEROSPORA 584
RHODOCYBE BOREALIS 584
RHODOMONAS 1305 6398 6713
RHODOPHYCEAE 1309 1390
RHODOPHYCOPHYTA 7358
RHODOPHYTA 645 1310 3252 4008 5463
RHODOSPORIDIUM 4078 7124 7220
RHODOTORULA 212 227 447 547 765 818 913
2598 3269 3275 3598 3636 4032 4142
4175 4366 4369 5786 6032 6137 6154
6388 6721 7220
RHODOTORULA AURANTIACA 6677
RHODOTORULA FLAVA 6047
RHODOTORULA GLUTINIS 763 1170 1444 3177
6068 6158 6628 7124 7252 7275 7276
7361 7507
RHODOTORULA GRACILIS 764 1662 3361 7289
RHODOTORULA GRAMINIS 6628
RHODOTORULA MINUTA 1167
RHODOTORULA MUCILAGINOSA 6292
RHODOTORULA PALLIDA 1188
RHODOTORULA PILIMANAE 4832 6040 7324
RHODOTORULA RUBRA 213 6641
RHODYMENIA 7022 7266
RHODYMENIA PALMATA 7056
RHODYMENIA PERTUSA 1386
RHOICOSPHAENIA CURVATA 5268
RHOICOSPHENIA CURVATA 3247
RHOPALODIA 5267
RHOSPORULA 647
RHYNCHOSPORA GUIANENSIS 1214
RHYNCHOSPORA SUBLANATA 1214
RHYNCHOSPORINA MEINERSII 2500
RHYNCHOSPORIUM ORYZAE 5125
RHYNCHOSPORIUM SECALIS 1782 5080
RHYNCOSPORIUM ORTHOSPORUM 5122
RHYTISMA ACERINUM 85 6665
RHYTISMA PUNCTATUM 85
RINODINA ARCHAEOIDES 5293
ROBILLARDA DEPAZEOIDES 4686
ROBILLARDA RHIZOPHORAE 6555
ROCCELLA FUCOIDES 4265
ROESLERIA PALLIDA 2046
ROPERIA 3241
ROSELLINIA NECATRIX 3414
ROTATORIA 693
ROUMEGUERIELLA RUFULA 3892
ROZELLA ALLOMYCIS 5284 7440
RUSSULA 3156
RUSSULA CYANOXANTHA 4026
RUSSULA DELICA 7236
RUSSULA NIGRICANS 1164
RUSSULA PSEUDODELICA 7236
RUSSULA PUELLARIS 4026
RUSSULA ROSACEA 4107
RUSSULA VESCA 4026
RUSSULA XERAMPELINA 4026
RUTSTROEMIA 6441

SACCHAROMYCES 170 447 615 972 1170 1188
1402 1439 1522 1617 1950 2174 2405
2755 2777 2838 2878 3485 3486 3586
3691 3825 4133 4359 4366 4390 4391
4394 4619 4633 5248 5577 5594 5786
5903 5941 5952 5997 5998 6032 6293
6726 7011 7220 7234 7411 7485
SACCHAROMYCES BISPORUS 5434
SACCHAROMYCES CARLSBERGENSIS 86 165 279 706
732 866 868 1278 1397 1521 1555
2112 2461 2602 2659 2698 3297 3322
3538 3539 4068 4211 4378 4754 4771
4772 4912 5329 5373 5376 5388 5433
5470 5529 5571 5982 5983 6053 6400
6570 6591 6667 6693 6698 6722 6762
7400 7607
SACCHAROMYCES CARTILAGINOSUS 6592
SACCHAROMYCES CEREVISIAE 86 87 88 166
167 168 169 200 201 225 226 235
281 282 304 319 328 329 330 388
389 390 391 627 628 707 708 709
710 733 734 735 736 737 738 739
740 741 743 867 868 884 898 899
908 909 935 936 937 967 968 969
970 1012 1276 1277 1278 1364 1365
1366 1367 1368 1398 1399 1400 1437
1438 1455 1456 1457 1466 1496 1517
1518 1519 1520 1521 1535 1536 1537
1538 1539 1555 1590 1591 1610 1611
1612 1613 1614 1615 1616 1728 1812
1813 1918 1965 1966 1978 1982 1983
2010 2021 2047 2048 2049 2065 2066
2086 2087 2088 2090 2092 2097 2102
2112 2113 2114 2115 2116 2143 2144
2145 2162 2163 2164 2165 2166 2167
2168 2169 2170 2171 2172 2404 2495
2563 2567 2572 2573 2574 2575 2603

SACCHAROMYCES CEREVISIAE (CONT'D)
2604 2605 2606 2607 2608 2609 2610
2611 2612 2650 2660 2661 2672 2673
2699 2723 2724 2754 2775 2776 2831
2832 2833 2834 2835 2836 2837 2858
3096 3219 3298 3299 3300 3317 3323
3324 3325 3326 3327 3328 3329 3330
3331 3335 3338 3350 3351 3352 3353
3354 3362 3363 3372 3373 3458 3459
3460 3461 3462 3463 3464 3483 3484
3503 3540 3581 3582 3583 3584 3795
3796 3850 3898 3967 3968 3969 3970
4069 4070 4071 4072 4073 4074 4075
4099 4100 4101 4102 4103 4104 4105
4136 4137 4159 4247 4248 4249 4275
4276 4277 4278 4290 4291 4292 4327
4328 4329 4330 4360 4380 4381 4382
4383 4385 4386 4387 4388 4755 4756
4757 4758 4773 4774 4775 4776 4777
4778 4800 4801 4802 4811 4812 4841
4851 4852 4853 4874 4875 4911 4913
4947 4948 4949 5155 5200 5201 5247
5311 5330 5331 5332 5333 5334 5335
5336 5372 5374 5389 5402 5403 5422
5434 5435 5470 5471 5490 5491 5502
5505 5511 5528 5530 5531 5537 5560
5572 5573 5574 5575 5836 5837 5890
5945 5946 5947 5948 5949 5950 5951
5953 5984 5985 5986 5987 5988 5989
5990 5991 5992 5993 5994 5995 6045
6053 6060 6093 6094 6095 6096 6097
6122 6150 6151 6158 6196 6197 6198
6199 6200 6201 6202 6203 6204 6205
6400 6401 6402 6424 6425 6519 6571
6572 6593 6594 6595 6626 6651 6652
6693 6694 6697 6721 6723 6724 6725
6763 6764 6765 6766 6767 6859 7115
7205 7206 7207 7208 7209 7224 7225
7226 7227 7228 7229 7230 7231 7232
7268 7269 7270 7284 7294 7295 7296
7316 7336 7337 7368 7383 7384 7402
7468 7469 7482 7483 7528 7695 7700
SACCHAROMYCES CEREVISIAE SHERRY V3 6132
SACCHAROMYCES CEREVISIAE VAR ELLIPSOIDES
392 3269 4379
SACCHAROMYCES CHERESIENSIS 5334
SACCHAROMYCES CHEVALIERI 202 3536
SACCHAROMYCES DELBRUCKII 5374 2570
SACCHAROMYCES DOBZHANSKII 5337
SACCHAROMYCES ELLIPSOIDES 2067 2089
SACCHAROMYCES ELLIPSOIDEUS VINI 4876
SACCHAROMYCES EUPAGYCUS 5528
SACCHAROMYCES EXIGUUS 7008
SACCHAROMYCES FLORENTINUS 1227 2461 3275
SACCHAROMYCES FRAGILIS 26 1521 2722 3899
4331 4695 4779 4780 5337 5338 5470
5528 6603 7233 7691
SACCHAROMYCES FRUCTUM 3536 5436
SACCHAROMYCES GLOBOSUS 971
SACCHAROMYCES HETEROGENICUS 1278
SACCHAROMYCES KLUYVERI 4643
SACCHAROMYCES LACTIS 742 4389 5576
SACCHAROMYCES LOGOS 2461
SACCHAROMYCES MARXIANUS 3536
SACCHAROMYCES MELLIS 1278 1401 1555 5790
SACCHAROMYCES MICROELLIPSODES 1227
SACCHAROMYCES NORBENSIS 6206
SACCHAROMYCES OLEAGINOSUS 4643
SACCHAROMYCES OVIFORMIS 282 2776 5996
SACCHAROMYCES PARADOXUS 971 3585
SACCHAROMYCES PASTORIANUS 5413
SACCHAROMYCES ROSEI 1278 5528
SACCHAROMYCES ROUXII 1574 5374 5790
SACCHAROMYCES SAKE 2700 2701
SACCHAROMYCES SENSU STRICTO 1227
SACCHAROMYCES UVARUM 2461 3536
SACCHAROMYCES VINI 1590 2173 4184 5996
SACCHAROMYCES Y-768 7484
SACCHAROMYCODES 586
SACCHAROMYCODES LUDWIGII 628 6012
SACCHAROMYCOPSIS GUTTULATA 6448
SACCOBOLUS GLABER 6542
SACCOBOLUS SUCCINEUS 6542
SACCOBOLUS TRUNCATUS 658
SACCOBOLUS VERSICOLOR 3086
SACCORHIZA DERMATODEA 5872
SACCORHIZA POLYSCHIDES 5872
SALPINGOECA NATANS 7085
SALPINGOECA PELAGICA 3923
SAMEIONEIS CARINAES 1298
SAPROCHAETE SACCHAROPHILA 7052
SAPROLEGNIA 83 3264 3690 5710
SAPROLEGNIA DICLINA 2550
SAPROLEGNIA FERAX 2550 3450
SAPROLEGNIA FERAX F-1 7282
SAPROLEGNIA MONOICA 2690
SAPROMYCES ELONGATUS 3450
SARCOCYSTIDAE 5259
SARCOCYSTIS 132 2312 4350 7424
SARCOCYSTIS FUSIFORMIS 4709
SARCOCYSTIS GRACILIS 133
SARCOCYSTIS MIESCHERIANA 4709
SARCODON CARBONARIUS 31
SARCOPHAGA CISTUDINIS 5666
SARCOPHOMA MIRBELLII 1924
SARCOSCYPHA 6545
SARCOSCYPHA COCCINEA 6544
SARCOSPHAERA CORONARIA 1863
SARCOSPHAERA CRASSA 1863
SARCOSPORIDA 7710
SARCOSPORIDIA TENELLA 3986
SARGASSUM 3444
SARGASSUM CERVICONE 1493
SARGASSUM PLAGIOPHYLLUM 4722
SARGASSUM RINGGOLDIANUM 110
SARGASSUM SAGAMIANUM 6525
SARGUS ANNULARIS 6856
SCAGELIA 4001
SCAPHIODON SAWAYAI SP,N, 6561
SCELETONEMA COSTATUM 1299 6165 7044
SCENEDESMUS 10 927 2418 2436 2528 3244
3570 3824 3843 4241 4368 4715 4933
5154 5180 5427 5816 7053 7151 7152
7160 7326 7429
SCENEDESMUS 276-3A 6168
SCENEDESMUS ACUTA 2583
SCENEDESMUS ACUTUS 2649 7627
SCENEDESMUS ACUTUS VAR ALTERNATUS 7459
SCENEDESMUS ARMATUS 1206
SCENEDESMUS CARINATUS VAR,BICAUDATUS 5817
SCENEDESMUS CIRCUMFUSUS 1206
SCENEDESMUS DENTICULATUS 1206
SCENEDESMUS ECORNIS 1206
SCENEDESMUS GRANULATUS 1206
SCENEDESMUS INTERMEDIUS F,DANUBIALIS 5817
SCENEDESMUS INTERMEDIUS F,GRANULATUS 5817
SCENEDESMUS INTERMIDIUS F,ELEGANS 5817
SCENEDESMUS OBLIQUUS 384 904 1331 1487
1492 4198 4238 5169 6397 6712 7108
7291 7327 7430
SCENEDESMUS OBLIQUUS VAR ALTERNANS 570
SCENEDESMUS OBTUSIUSCULUS 723 2478 4239
4240
SCENEDESMUS PSEUDOLONGISPINA 4000
SCENEDESMUS PSEUDOQUADRICAUDA 4000
SCENEDESMUS QUADRICAUDA 71 904 926 1332
1449 2822 4903 5169 5233 5234 5555
5866 7361 7628 7461 7711
SCENEDESMUS SHENSIENSIS 3871

SCHELLACKIA 5067
SCHELLACKIA OCCIDENTALIS 134
SCHIMMELMANNIA DAWSONII SP.N. 5826
SCHIZOBLASTOSPORION STARKEYI-HENRICII 3270
SCHIZOCHYTRIUM 1333
SCHIZOCHYTRIUM AGGREGATUM 5190
SCHIZONELLA 1879
SCHIZOPHYLLUM 1607
SCHIZOPHYLLUM COMMUNE 239 396 397 398 399 618 632 633 871 1186 1282 1406 1624 2178 2179 3420 3590 4255 4950 5391 5473 5581 5941 6598 6599 7013 7074 7415
SCHIZOPYRENUS RUSSELLI 189 3559 7421
SCHIZOSACCHAROMYCES 586 7220 7692
SCHIZOSACCHAROMYCES JAPONICUS 909
SCHIZOSACCHAROMYCES OCTOSPORUS 305 3465 4644
SCHIZOSACCHAROMYCES POMBE 89 351 352 418 629 630 800 898 1403 1440 1540 1569 1618 1619 1620 1621 1919 1950 1967 2003 2112 2158 2778 2839 3539 3587 3588 3900 4106 4250 4853 5202 5578 5579 5953 6207 6208 6618 7235
SCHIZOSACCHAROMYCES SLOOFFIAE SP.N. 4644
SCHIZOTHRIX 5399 5762
SCHIZOTHRIX ANABAENOIDES 3123
SCHIZOTHRIX CALCICOLA 6518
SCHIZOTHYRIOMA 3271
SCHIZOTHYRIOMA ATERRIMUM 578
SCHIZOTHYRIOMA PTARMICAE 578
SCHIZOTRYPANUM CRUZI 5672
SCHLUMBERGINA KRIMIKA SP.N. 7196
SCHROEDERELLA DELICATULA 3261
SCHWANNIOMYCES 586
SCHWANNIOMYCES OCCIDENTALIS 3536 5470
SCINAIA JAPONICA 3208
SCINIATOSPORIUM SPP. 1248 2467
SCIRPUS ACUTUS 111
SCIRRHIA ACICOLA 1114 5076 5077
SCLERODERMA 4997
SCLERODERMA FLAVIDUM 7183
SCLERODERRIS 6922
SCLERODERRIS LAGERBERGII 5724 5725 6917 6918 6919 6920 6921 7673
SCLEROPHOMA AMBIGUA 7643
SCLEROSPORA GRAMINICOLA 5886
SCLEROSPORA SORGHI 5717
SCLEROTINA HOMOEOCARPA 2098
SCLEROTINIA 1760 2329 2544 2998 3092 3384 5340 5510 5896
SCLEROTINIA BOREALIS 5756 6980 6981
SCLEROTINIA CINEREA 5510
SCLEROTINIA FRUCTICOLA 6337
SCLEROTINIA FRUCTIGENA 6337 7082
SCLEROTINIA LAXA 5726 6337
SCLEROTINIA MINOR 5766 6338
SCLEROTINIA NARCISSICOLA 7082
SCLEROTINIA SCLEROTIORUM 236 1285 1592 1866 2146 2662 2750 3106 3790 3826 4549 4885 5339 5396 5510 5518 5727 5734 5766 6338 6449
SCLEROTINIA TRIFOLIORUM 6923 7674
SCLEROTINIA TUBEROSA 6449
SCLEROTIUM 3797 4619 6388 7259
SCLEROTIUM BATATICOLA 6369 6959 7339
SCLEROTIUM CEPIVORUM 1552 3060 3063 5766 7082
SCLEROTIUM DELPHINII 1285
SCLEROTIUM ORYZAE 3061 6988
SCLEROTIUM ROLFSII 337 915 1285 1755 1776 2397 3035 3062 3063 3064 3809 4261 4262 4623 5148 5479 5734 5759 6010 6678 6982 7082 7397 7674
SCLEROTIUM TULIPARUM 7082
SCOPULARIA CLERCIANA 122
SCOPULARIOPSIS 4887 4897 6467 7699
SCOPULARIOPSIS BREVICAULIS 766 2069 2788 4161 5000
SCOPULARIOPSIS FIMICOLA 5779
SCOTIELLA NIVALIS 5762
SCRUPOCELLARIA REPTANS 5523
SCUTELLINIA PSEUDOUMBRARUM SP.N. 21
SCYPHIDIA 5709
SCYTALIDIUM LIGNICOLA 7014
SCVTONEMA 606 2385 5762 6032
SCYTONEMA ARCHANGELLI 1586
SCYTONEMA GEITLERI 370
SCYTOSIPHONACEAE 3958
SEBDENIA RODRIGUEZIANA 5827
SEIMATOSPORIUM 2467
SEIROSPORA 4673
SELENASTRUM 4715
SELENASTRUM CAPRICORNUTUM 4354 5801 6714 7024 7434 7435
SELENASTRUM GRACILE 1818
SELENDIUM PENDULA 63
SELENIDIOIDES SPP.N. 1900
SELENIDIUM HOLLANDEI 63
SELENIDIUM SPP.N. 1900
SELENOCYSTIS 1900
SENCOCYSTIS 6807
SENECHOCYSTIS 5154
SEPEDONIUM 2033 2878
SEPTOMYXA AFFINIS 3376 4176 4814 6059
SEPTONEMA KIELMEYERAE 5831
SEPTORIA 6346 7005
SEPTORIA APIICOLA 944
SEPTORIA AVENAE 5127
SEPTORIA AVENAE F.SP.TRITICEA 3482
SEPTORIA BOTULIFERMAS 6341
SEPTORIA GLYCINES 4598 6371
SEPTORIA HELIANTHII 5734
SEPTORIA LACTUCAE 5754
SEPTORIA LYCOPERSICI 1783
SEPTORIA NODORUM 522 1122 1553 2073 2379 5126 6983
SEPTORIA PASSERINII 945 5080
SEPTORIA PISTACIARUM 5249
SEPTORIA TRITICI 522 1553 5127
SERATOCYSTIS TREMULO-AUREA 4543
SEROTIUM TENUIPES 7183
SERPULA LACRIMANS 2814
SERPULA PINASTRI 1238
SESBANIA AEGIPTIA 1594
SESSILIA 5299
SILICOFLAGELLALES 1942
SIMOCYBE REDUCTOAFFINIS SP.N. 1236
SIMULIOMYCES MICROSPORUS 5285
SINEDRA 3237
SIROCOCCUS GIBBEROIDEUS 1924
SIROCOCCUS STROBILINUS 5128
SIROGONIUM PSEUDOFLORIDANUM 3130
SIROGONIUM 2437
SIROGONIUM STICTICUM 3130
SIROGONIUM TENUIUS 3130
SKELETONEMA COSTATUM 1295 1390 1969 2529 2807 3497 4006 4012 4153 4314 4315 4651 5366 5524 5802 6630 7148 7333 7462
SKUJAPELTA NUDA 2446
SMITHORA NAIADUM 5880
SMITTIUM 6228 42
SMITTIUM CULESETAE 7443
SMITTIUM CULICIS 1567
SMITTIUM ELONGATUM 5285
SMITTIUM INOPINATUM 1567
SORANGIUM COMPOSITUM 822
SORATAEA BAPHIAE 1875

SORDARIA 5545
SORDARIA BREVICOLLIS 6209
SORDARIA FIMICOLA 1775 2496 5146 7017
SORDARIA HUMANA 1775 6542
SORDARIA MACROSPORA 6542
SORELLA REPENS 613
SORGHUM HALAPENSE 1245
SORGHUM VULGARE 1245
SOROSPORIUM 1879
SPARASSIS CRISPA 1238
SPAROLEGNIA PARASITICA 7442
SPARROWIA SUBCRUCIFORMIS 1217
SPATHOGLOSSUM PACIFICUM 7104
SPATHULARIA FLAVIDA 6450
SPATHULARIA VELUTIPES 6450
SPEGAZZINIA PARVUM SP,N. 7413
SPERMATOCHNACEAE 3958
SPERMOTHAMNION SNYDERAE 1211
SPHACELARIA CIRROSA 2443
SPHACELARIA FUSCA 2443
SPHACELOMA 6362
SPHACELOTHECA CRUENTA 3766
SPHACELOTHECA REILIANA 2990 4227 7271
SPHACELOTHECA SORGHI 3766
SPHACELOTHECA 1879
SPHAERIA CARICETI 5197
SPHAERIA CHAETOPHORA 5197
SPHAERIA DISCONCOLA 3272
SPHAERIA EUCRYPTA 5197
SPHAERIA HELICOSPORA 5197
SPHAERIA PHAEOSTROMA 2462
SPHAEROBOLUS STELLATUS 2050 4738
SPHAEROCHARA CATHARIENSIS 6709
SPHAEROCHARA EDDA 6709
SPHAEROCHARA EDDA SP,N, 6431
SPHAEROIDINELLA DEHISCENS 7195
SPHAERONEMA EPIGLOEUM 37
SPHAEROPSIDALES 5447
SPHAEROSPORA CARASSII 1079 7616
SPHAEROSPORA SACCATA 1260
SPHAEROTHECA 5196
SPHAEROTHECA FULIGINEA 2994 5086 5087 6924
SPHAEROTHECA HUMULI 7627
SPHAEROTHECA LANESTRIS 6925
SPHAEROTHECA MACULARIS 5088
SPHAEROTILUS 4654 7029
SPHAEROTILUS NATANS 7026
SPHENODERIA 4630
SPICARIA ASYMMETRICA 1594
SPICARIA RILEYI 6872
SPICARIA SILVATICA 3389
SPIRATELLA 3945
SPIRETTA 3945
SPIRILLINIDAE 4048
SPIRILLUM 6620
SPIRILLUM UNDULUM 6626
SPIRINELLA 5230
SPIRIOPSIS ADIPOPHILA 5230
SPIROCHONA GEMMIPARA 3234
SPIROCORYS 3190
SPIROGYRA 1909 2479 3202 3570 4130 6158 6397 6491 7168 7361
SPIROGYRA AFRICANA 646
SPIROGYRA GRACILLIS 646
SPIROGYRA PORTICALIS 2530 3247
SPIROGYRA QUADRATA 646
SPIROGYRA SUBSALINA 646
SPIROGYRA SUBSALSA 646
SPIROGYRA TEODORESCI 646
SPIROGYRA VERRUCOSA 646
SPIRONUCLEUS 1079
SPIRORBIS 5523
SPIRORBIS CORALLINAE 5523
SPIROSTOMUM AMBIGUUM 1375 7392 7458
SPIROSTOMUM TERES 1353 7199
SPIROTRICHONYMPHA 6704
SPIRULINA 642 5399 5811
SPIRULINA MAJOR 2429 3124 3570
SPIRULINA MAXIMA 6027 6397 7332
SPIRULINA PLATENSIS 2667 3824 6028 6397
SPONDYLOCLADIUM 2206
SPONGIOCHLORIS EXCENTRICA 3245 4903
SPONGIPELLIS LITSCHAUERI 6452
SPONGOSPORA SUBTERRANEA 5759
SPORIDESMIUM KIELMEYERAE 5831
SPORIDESMIUM MACRURUM 1957
SPOROBOLOMYCES 227 1327 2598 3275 7220
SPOROBOLOMYCES HOLSATICUS 5289
SPOROBOLOMYCES PARAROSEUS 1167 1990
SPOROBOLOMYCES PUNICENS 6056
SPOROBOLOMYCES ROSEUS 3793 4599
SPOROBOLOMYCES SALMONICOLOR 1167 3177 7124
SPORORMIA 4678
SPORORMIA AUSTRALIS 1775 6500
SPORORMIA BIPARTIS 3086
SPORORMIA FIMETARIA 3086
SPORORMIA INTERMEDIA 3086
SPORORMIA VEXANS 3086
SPORORMIELLA 4678
SPORORMIELLA BOREALIS 4732
SPORORMIELLA GRANDISPORA 4732
SPOROTHRIX 6655 7189
SPOROTHRIX SCHENCKII 1221 2016 2194 5018 5533 5633 6265 6827 7545
SPOROTRICHA 5634 6828
SPOROTRICHUM 119 2033 4970 7011
SPOROTRICHUM ROSEOLUM 5799
SPOROTRICHUM SCHENCKII 2210 2789 2900 2947 4500 5829 6871 7552
SPOROTRICHUM SULFURESCENS 287 876
SPOROTRICHUM THERMOPHILE 2780
SPOROZOA 6426
SPYRIDIA FILAMENTOSA 1267
STACHBOTRYS ALTERNANS 4636
STACHYBOTRYS 4259
STACHYBOTRYS ALTERNANS 461
STACHYBOTRYS ALTERNANS-GOMBA 468
STACHYBOTRYS ATRA 302 1797 2029 3808 4636
STACHYBOTRYS CHARATUM 4263
STACHYBOTRYS CHARTARUM 3390 5145 5768 5769
STACHYLINA CHIRUNOMIDARUM 5285
STACHYLINA GRANDISPORA 5285
STAGONOSPORA MELILOTI 1113
STAURASTRUM 2617 7054
STAURASTRUM CRISTATUM 2648
STAURASTRUM HEXACERUM VAR,CONVERGENS 4718
STAURASTRUM KUROZOENSE SP,N. 4718
STAURASTRUM LUNATUM 7150
STAURASTRUM PARADOXUM 7355
STAURASTRUM PINGUE 7459
STAURASTRUM SEBALDII VAR ORNATUM 7355
STAURODESMUS CUSPIDATUS VAR,DELICATULUS 4718
STAURODESMUS DICKIEI VAR,MICROSPINUS VAR,N. 4718
STAURONEIS 3264 5267
STAURONEIS ANCEPS 7162
STEMONITIS 14
STEMONITIS AXIFERA 1849
STEMONITIS FLAVOGENITA 1849
STEMONITIS FUSCA 13
STEMPHILIUM BOTRYOSUM 7684
STEMPHILIUM ILICIS 6019
STEMPHYLIUM 3490 7715
STEMPHYLIUM BOTRYOSUM 119 2206 2211 2408 6339 6974 6984 7017 7127
STEMPHYLIUM LOTI 5757 6609
STEMPHYLIUM RADICINUM 7005
STEMPHYLIUM SARCINAEFORME 2761
STEMPHYLIUM SOLANI 1543 2211
STEMPHYLIUM VERRUCULOSUM 5755
STENELLA 4547

STENOCALYX MONOLIFERA 924
STENOCLADIA 574
STENTOR AMETHYSTINUS 2424
STENTOR POLYMORPHUS 6114
STENTOR COERULEUS 64 135 1353 2738 3990 4270 4937 5864 6113 6114
STEPHANODISCUS 2527 3235 3242 3862
STEPHANODISCUS ASTRAEA 3126 3247 7167
STEPHANODISCUS BINDERANUS 6429
STEPHANODISCUS HANTZSCHII 1305
STEPHANODISCUS SOOCHOWENSIS SP.N. 3125
STEPHANOECA PEDICELLATA 7085
STEPHANOPYXIS COSTATA 5366
STEPHANOPYXIS TURRIS 7333
STEREOCAULON 1185
STEREOCAULON CONDENSATUM 5933
STEREOCAULON PASCHALE 2018 3846
STEREUM 3167
STEREUM FRUSTULATUM 36 3420 7702
STEREUM HIRSUTUM 36
STEREUM OSTREA 36
STEREUM PURPUREUM 1922
STEREUM SANGUINOLENTUM 745
STEREUM STRIATUM 36
STERIGMATOMYCES ELVIAE 4078
STERIGMATOMYCES HALOPHILUS 1009
STEROCAULON 5932
STICHOCOCCUS 2528 4317 7055
STICHOCOCCUS BACILLARIS 5762
STICTYOSIPHONACEAE 3958
STIGEOCLONIUM 2480 2822 3203 3824 4670 6397
STIGEOCLONIUM FARCTUM 3954
STIGEOCLONIUM HELVETICUM 6050 7049
STIGMINA 1248 2467
STIGMINA CARPOPHILA 1957
STIGONEMA 1586 5762
STIGONEMA HORMOIDES 5178
STIGONEMA MAMILLOSUM 5178
STILBELLA THERMOPHILA 2780
STOMIOPELTIS 5831
STRACHBOTRYS 7413
STREBLONEMA AGGREGATEUM SP.N. 5187
STREBLONEMA AMBIVALENS SP.N. 5187
STREBLONEMA INTEGRATUM 5187
STREBLONEMA TENUISSIMUM 5187
STREPTOMYCES 45 266 668 941
STREPTOMYCES AUREUS 849
STREPTOMYCES COELICOLOR 215
STREPTOMYCES FLAVOVIRENS 530
STREPTOMYCES FRADIAE 777
STREPTOMYCES GRISEUS 267 777 780 781 807
STREPTOMYCES LITMOCIDINI 379
STREPTOMYCES LIVIDUS 597 850
STREPTOMYCES METACHROMOGENES 851 852
STREPTOMYCES NOURSEI 853
STREPTOMYCES PURPURESCENS 292
STREPTOMYCES ROCHEI VAR.VOLUBILIS 598 854 855
STREPTOMYCES SATSUMAENSIS 592
STREPTOMYCES SCABIES 215
STREPTOMYCES SIOYAENSIS 268 291
STREPTOMYCES TORULOSUS 46
STRIARIACEAE 3958
STRIGOMONAS ONCOPELTI 4125 5854
STROBILOMYCES CONFUSUS 27
STROBILOMYCES FLOCCOPUS 27
STROMATINIA 1867
STROMBIDIUM 686
STROMBIDIUM SULCATUM 7199
STROMBILIDIUM PULEX 6856
STROMBOMONAS FLUVIATILIS 3131
STROPHARIA 3156 5206
STROPHARIA CORONILLA 5758
STYLONYCHIA 4396 4866 6578
STYLONYCHIA MYTILUS 1376
STYLONYCHIA NOTOPHORA 2748
SUILLUS BREVIPES 6386
SUILLUS COTHURNATUS 6386
SUILLUS GRANULATUS 6386
SUILLUS HIRTELLUS 6386
SUILLUS PICTUS 6386
SURIRELLA 5267
SURIRELLA BISERIATA 5181
SURIRELLA LINEARIS 3253
SWEDMARKIA ARENICOLA 1907
SYMBIODINIUM MICROADRIATICUM 5916
SYMPODIOMYCES GEN.N. 593
SYMPODIOMYCES SP.N. 593
SYNCEPHALASTRUM RACEMOSUM 4033 4161 5799 6326 7684
SYNCEPHALIS 4617
SYNCHYTRIUM ENDOBIOTICUM 931 1568 5759
SYNCHYTRIUM MERCURIALIS 576
SYNECHOCOCCUS 193 3369 5811 5905
SYNECHOCOCCUS AERUGINOSUS 7059
SYNECHOCOCCUS CEDRORUM 1448 3078 4631
SYNECHOCOCCUS ELONGATUS 4631 7059
SYNECHOCOCCUS LIVIDUS 276 558 857 4129 4806 6397 6428 7349 7430
SYNECHOCYSTIS AQUATILIS 1484 3433 5424
SYNECOCYSTIS 4631
SYNEDRA 3126 3236 3242 3246 3247 4933 5267 7164
SYNEDRA ACUS 7169
SYNEDRA AFFINIS 1300
SYNEDRA FASCICULATA 2516
SYNEDRA RADIANS 3521
SYNEDRA TABULATA 5268
SYNEDRA ULNA 549 3570
SYNURA 4837 7162
SYRACOSPHAERA MEDITERRANEA 4012
SYRACOSPHAERA PULCHRA 4012
SYZYGITES MEGALOCARPUS 160

TABELLARIA 4726 5267 5282
TABELLARIA FENESTRATA 5268
TABELLARIA FLOCCULOSA 3253 5268
TALAROMYCES 1868 2780
TALAROMYCES EMERSONII 1189
TALAROMYCES SPICULISPORUS 5146
TALAROMYCES VERMICULATUS 3901
TAPESIA 5896
TAPHRINA 4078
TAPHRINA DEFORMANS 1115 4193
TARZETTA 1867
TECTOCHARA 6709
TELOSCHISTACEAE 601
TELOSCHISTES 5930
TELOTROCHIDIUM HENNEGUYI 3948
TEMORA LONGICORNIS 4341
TENAREA TESSELLATUM 3138
TERFEZIA 23
TESTACEA 681
TESTACEAE 4050
TESTUDINA 1869
TETRACLADIUM SETIGERUM 4141
TETRAEDRON 4933
TETRAHYMENA 247 951 2057 2082 2423 4353 6025 6396 6579 7136 7260
TETRAHYMENA MACRONUCLEI 6481
TETRAHYMENA PYRIFORMIS 64 69 146 148 219 245 246 383 406 407 637 718 719 786 809 810 894 903 921 922 1258 1259 1260 1358 1377 1378 1379 1380 1381 1427 1447 1502 1532 1533 1560 1561 1601 1937 1938 1968 1993 1994 2006 2007 2056 2186 2187 2577 2655 2676 2706 2739 2819 2820 3181 3304

TETRAHYMENA PYRIFORMIS (CONT'D) 3356 3479 3493 3494 3519 3562 3577 3578 3595 3946 3947 3991 4126 4127 4337 4352 4397 4816 4867 4880 4937 5261 5317 5318 5362 5383 5411 5412 5487 5520 5553 5850 5904 6024 6115 6116 6126 6127 6143 6215 6322 6425 6481 6577 6622 6640 6689 6772 6774 7091 7261 7262 7300 7301 7393 7394
TETRAHYMENA PYRIFORMIS STR HSM 7263
TETRAHYMENA VORAX 5908
TETRAMITUS ROSTRATUS 3559 7421
TETRASELMIS CARTERIIFURMIS 5386
TETRASELMIS MACULATA 4091
TETRASPORA LUBRICA 1861
TEXTULARIIDAE 4048
THALASSIONEMA 1296 1297
THALASSIONEMA NITZSCHIOIDES 4723 5268 5524 6165
THALASSIONEMA POLYCHORDA 5268
THALASSIORA GRAVIDA 5268
THALASSIORA HYALINA 5268
THALASSIORA POLYCHORDA 5268
THALASSIOSIRA 1808
THALASSIOSIRA BALTICA 1808
THALASSIOSIRA CONSTRICTA 2433
THALASSIOSIRA FLUVIATILIS 4651
THALASSIOSIRA NORDENSKIOLDII 1295
THALASSIOSIRA PSEUDONANA 3497 4883 5524
THALASSIOSIRA ROTULA 6630
THALASSIOTHRIX DELICATULA 1940
THALASSIOTRIX FAUNFELDI 4723
THALASSOCHONA ANTENNARIA GEN.N.SP.N. 1350
THALASSOCHONA BASALIS GEN.N.SP.N. 1350
THALASSOCHONA GAMBELLI GEN.N.SP.N. 1350
THALASSOCHONA GEN.N. 1350
THALIA DEMOCRATICA 4725
THALOSSIONEMA NITZSCHIOIDES 2516
THAMNIDIUM 4619 7011
THAMNIDIUM ELEGANS 160 2757 4287
THANATEPHORUS CUCUMERIS 6505 6506
THECAPHORA 1879
THEILERIA 6316
THEILERIA PARVA 491 4521 4527 5705 6239 6807
THELEBOLUS 1856
THELEBOLUS NANUS 3086
THELEBOLUS STERCOREUS 3086
THELEPHORA TERRESTRIS 3807 6785
THELOHANIA BRACTEATA 1899 5706 7089
THELOHANIA PRISTIPHORAE 1088
THELOTREMA LEPADINUM 4656
THELOTREMA WIGHTII 3179
THERMOACTINOMYCES 668
THERMOACTINOMYCES SACCHARI SP.N. 47
THERMOACTINOMYCES VULGARIS 47
THERMOASCUS AURANTIACUS 2780 5147
THERMOASCUS CRUSTACEUS 4161
THERMOMONOSPORA CURVATA 184
THERMOMYCES IBADANENSIS 2591
THERMOMYCES LANUGINOSUS 2591 4161
THIELAVIA 3892 5147
THIELAVIA BASICOLA 2544
THIELAVIA SEPEDONIUM 4161
THIELAVIA TERRICOLA 3095
THIELAVIELLA OCTOSPORUS SP.N. 6442
THIELAVIOPIS BASICOLA 5480
THIELAVIOPSIS 5111
THIELAVIOPSIS BASICOLA 2761 3791 5129 6363 6364 7414
THIELAVIOPSIS PARADOXA 349
THIGMOTRICHA 3196 3197 5229
THIOTHRIX 7026
THRAUSTOCHYTRIUM 1333 5194 7680
THRAUSTOCHYTRIUM MOTIVUM 5190
THRAUSTOTHECA CLAVATA D-7 7282
THYROSTROMA 1248
TICHOTHECIUM ALECTORIAE 1228
TIEGHEMELLA HYALOSPORA 3534
TIEGHEMIOMYCES CALIFORNICUS 7063
TILACHLIDIOPSIS BRASILIENSIS SP.N. 7077
TILACHLIDIUM HUMICOLA 6019 7017
TILLETIA 1879 4227
TILLETIA CARIES 1122 1123 1125 3013 3014
TILLETIA CONTRAVERSA 1123 3013
TILLETIA FOETIDA 1122 1123
TILLETIA LAEVIS 3013
TILLETIACEAE 5738
TILLETIARIA ANOMALA 3904
TILLETIOPSIS 7338
TINTINNOINEA ROSSOLIMOI 6856
TIRMANIA NIVEA 23
TOKOPHRYA INFUSIONUM 2511
TOKOPHRYA LEMNARUM 2511
TOKOPHRYA QUADRIPARTITA 2511
TOLYPELLA 3579
TOLYPOSPORIUM ERHENBERGII 3766
TOLYPOSPORIUM ERIOCAULI 6462
TOLYPOSPORIUM PENICILLARIAE 3766 4560
TOLYPOSPORIUM 1879
TOLYPOTHRIX 5399
TOLYPOTHRIX TENUIS 606 3799 4230 4613 4791 5365 7038
TORPEDOSPORA 3280
TORTANCIO DISCAUDATUS 4341
TORTANUS DISCAUDATUS 4341
TORULA 4637 7691 7695
TORULA CANDIDA 980
TORULA FAMATA 980
TORULA GLABRATA 2278
TORULA HERBARUM 868
TORULA THERMOPHILA 2779
TORULA UTILIS 4334
TORULOMYCES LAGENA 7128
TORULOPIS 227 447 547 586 913 1329 1334 1958 2193 2753 3269 3275 3691 5786 6056 6177 6752 7011
TORULOPSIS AERIA 1170
TORULOPSIS ANOMALA 6654
TORULOPSIS AURICULARIAE 3907
TORULOPSIS CANDIDA 2633 2634 3338 5528 6176
TORULOPSIS COLLICULOSA 4956 5528
TORULOPSIS FAMATA 1170 1500 7469
TORULOPSIS FRAGARIA 6012
TORULOPSIS FRAGARIA SP.N. 666
TORULOPSIS FRUCTUS 3907
TORULOPSIS GLABRATA 338 443 1728 3636 4958 4970 6823 7585
TORULOPSIS GLOBOSA 4891 5511
TORULOPSIS GROPENGIESSERI 6652
TORULOPSIS MUSAE 3907
TORULOPSIS PINTOLOPESII 4859
TORULOPSIS SPHAENCA 6292
TORULOPSIS STELLATA 1188 1555
TORULOPSIS UTILIS 339 767 2077 4778 4781 4832 5954 7209 7369 7473
TORULOPSIS VERSATILIS 6654
TOXOPLASMA 459 994 1668 1746 1750 1751 2219 2240 2273 2505 2805 2872 2935 3230 3609 3623 3683 3685 3745 4350 4416 4435 4436 4990 4991 5038 5066 5258 5259 5488 5494 6320 6806 6805 6851 6852 6853 7520 7521
TOXOPLASMA GONDII 136 149 460 603 605 695 895 955 993 1008 1054 1089 1090 1091 1092 1583 1586 1718 1769 214 2272 2313 2508 2855 2933 2934 297 3231 3622 3680 3681 3682 4427 443 4434 4528 4529 4530 4531 4932 506 5259 5707 5708 5861 6226 6227 624

TOXOPLASMA GONDII (CONT'D) 6241 6242 6282 6317 6318 6319 6741 6805 6807 6847 6848 6849 6855 7090 7424 7457 7501 7502 7516 7517 7518 7519
TRACHELEUGLYPHA 4630
TRACHELOMONAS HISPIDA 5270
TRACHELOMONAS VOLVOCINA 4711
TRAMETES 3279
TRAMETES EXTENUATUS 7371
TRAMETES HIRSUTA 2614
TRAMETES PINI 3420
TRAMETES VERSICOLOR 2614 6600
TRANZSCHELIA FUSCA 585
TREBOUXIA 7292
TREBOUXIA ERICI 862
TRECHISPORA POLYPOROIDEA 3902
TREMATOCARPUS PAPENFUSSII SP.N. 5909
TREMATOSPHAERIA ABUENSIS SP.N. 5203
TREMATOSPHAERIA MASTOIDEA 5887
TREMELLA 4078
TREMELLA FUCIFORMIS 37
TREMELLALES 5896
TRIBONEMA AEQUALE 5 4837 7277
TRIBONEMA VIRIDE 7046
TRICERATIUM ANTEDILUVIANUM 7045
TRICERCOMONAS INTESTINALIS 4415
TRICHARINA CRETEA COMB.N. 658
TRICHIA FAVOGINEA 13
TRICHINELLA 366
TRICHINELLA SPIRALIS 6876
TRICHOBOLUS ZUKALII 3086
TRICHOCLADIUM ASPERUM 907
TRICHODERMA 263 530 1959 2033 2117 2396 2989 3431 4624 5150 7002 7017 7189 7413
TRICHODERMA AUREOVIRIDE 265
TRICHODERMA HAMATUM 265 907 3811
TRICHODERMA HARZIANUM 265 7321 7676
TRICHODERMA KONINGII 265 302 768 5771 6011 7706
TRICHODERMA LIGNORUM 1594 2685 5772 6019
TRICHODERMA LONGIBRANCHIATUM 265
TRICHODERMA PILULIFERUM 265
TRICHODERMA POLYSPORUM 265 2704
TRICHODERMA PSEUDOKONINGII 265
TRICHODERMA SPORULOSUM 2704
TRICHODERMA VIRGATUM 5448
TRICHODERMA VIRIDE 264 265 308 594 769 770 911 1015 1186 1319 1574 1575 1775 1799 2501 2761 2779 2791 3000 3093 3095 3111 3301 3391 3392 4224 4225 4365 4744 5540 5771 5779 5941 6133 6326 6388 6389 6555 6970 7014 7253 7372 7415 7682 7684
TRICHODESMIUM 5275
TRICHODESMIUM THIEBAUDII 4712
TRICHODINA 1079 5709 5710
TRICHODINA INDICA 6322
TRICHODINA PEDICULUS 5299
TRICHODINELLA EPIZOOTICA 1079
TRICHOLOMA 4856 5780
TRICHOLOMA AGGREGATUM 661
TRICHOLOMA INTERMEDIUM 4026
TRICHOLOMA TERREOLENS 4026
TRICHOMERIUM 1224
TRICHOMITOPSIS TERMOPSIDIS 5531
TRICHOMONAS 1703 1704 2254 2259 2850 2853 3642 4449 5027 5028 5482 6274 6780 6834 6855 7545 7559 7560 7561 7585
RICHOMONAS COLUMBAE 4266
RICHOMONAS ELONGATA 4749
RICHOMONAS FOETUS 1501 4266 6741 6807 7403
TRICHOMONAS GALLINAE 2745 4508 6741 6795 6796 6797 6807
TRICHOMONAS HOMINIS 676
TRICHOMONAS INTESTINALIS 2906
TRICHOMONAS MURIS 5482 5668
TRICHOMONAS TENAX 2906 5588
TRICHOMONAS TRYPANOIDES 6704
TRICHOMONAS VAGINALIS 435 452 677 1035 1036 1683 1702 1705 2133 2249 2252 2253 2550 2553 2794 2906 2907 2908 2952 3638 4307 4343 4469 4470 4471 4472 4958 5024 5025 5026 5588 5638 5670 5680 6217 6220 6696 6740 6741 6779 6807 6813 6833 6856 6875 7403 7420 7456 7494 7529 7558
TRICHOMYCOSIS PALMELLINA 444
TRICHONYMPHA AGILIS 6704
TRICHOPHRYA SINENSIS 1079
TRICHOPHYTON 916 1003 1694 1728 2195 2242 2468 3646 4887 4889 4960 6829 7411 7417 7418
TRICHOPHYTON AJELLOI 1599 4685
TRICHOPHYTON CONCENTRICUM 2194
TRICHOPHYTON FERRUGINEUM 3649
TRICHOPHYTON MEGNINI 5407
TRICHOPHYTON MENTAGROPHYTES 357 419 445 446 911 1249 1554 1693 1731 2106 2192 2194 2754 2759 2790 2844 3549 3599 4280 4303 4304 4426 4501 4502 4685 4957 5122 5407 5541 5595 5630 5632 6133 6155 6219 6297 6701 6777 7254 7316 7416 7585
TRICHOPHYTON MENTAGROPHYTES VAR.ASTEROIDES 5665
TRICHOPHYTON MENTAGROPHYTES VAR.GRANULOSUM 4304 5665
TRICHOPHYTON PERSICOLOR 2843
TRICHOPHYTON QUINCKEANUM 1065 1693 2844 7585
TRICHOPHYTON RUBRUM 357 409 419 445 446 1554 1693 2192 2194 2237 2790 2844 2845 2901 3549 3599 4280 4303 4304 4402 4897 4959 4971 5407 5541 5630 5631 5632 5665 6219 6266 6701 6777
TRICHOPHYTON SCHOENLEINII 1693 2844 5407 5631 5632 6777
TRICHOPHYTON SIMII 4502 5580
TRICHOPHYTON TERRESTRE 123
TRICHOPHYTON TONSURANS 1693 2194 2846 5407 5632 6777
TRICHOPHYTON VERRUCOSUM 1693 2194 2238 2844 4685 6298 6299 6777
TRICHOPHYTON VIOLACEUM 1693 2790 3600 4304 5407 5631 5632 6777
TRICHOSPHAERIA CORYLINA 5887
TRICHOSPHAERIA SORBICOLA 5887
TRICHOSPORON 44 4078 6721 7220
TRICHOSPORON BEHRENDII 6292
TRICHOSPORON BRASSICAE 3907
TRICHOSPORON CUTANEUM 447 960 5356 6012
TRICHOSPORON INKIN 5847
TRICHOSPORON PULLULANS 6012
TRICHOSPORONLODDERI 4078
TRICHOSTOMA 5229
TRICHOTHECIUM 3431 6261 6467
TRICHOTHECIUM ROSEUM 4177 5396 5797 6067 7413
TRICHOTHYRIUM ASTEROPHORUM 5888
TRICHOZYGOSPORA CHIRONOMIDARUM 5285
TRICOTHECIUM 532

TRIGONOPSIS VARIABILIS 1555
TRIMITUS DIVERGENS 6704
TRINEMA 4630
TRINEMA LINEARE 1342
TRIPLOSPORIUM FLORIDANUM 7580
TRIPLOSPORIUM FRESENII 121
TRIPTEROSPORELLA PAKISTANI 3892
TRITIRACHIUM HEIMII VAR GRISEA 2069
TRITRICHOMONAS AUGUSTA 1887
TRITRICHOMONAS CRICETUS 1887
TRITRICHOMONAS MURIS 1887
TROCHAMMINIDAE 4048
TROCHISCIA ASPERA 5762
TRUNCOROTALOIDES AEQUA 3290
TRUNCOROTALOIDES VELASCOENSIS 3290
TRYBLIDIOPSIS 4025
TRYBLIDIUM 4025
TRYPANOSOMA 365 412 1037 1739 2198 2866 2909 2910 3925 4418 5067 6109 6307 6787 6835 6855 6878 7495 7594 7603
TRYPANOSOMA ACOMYS 7129
TRYPANOSOMA ATAEVI 1341
TRYPANOSOMA AVIUM 52
TRYPANOSOMA BLANCHARDI 7129
TRYPANOSOMA BRUCEI 363 364 413 949 1004 1556 1647 1660 1732 1738 1926 2134 2286 2862 2863 2953 3180 3657 3708 3710 3980 4344 4408 4513 4973 4974 4975 5048 5049 5050 5051 5600 5604 5673 5674 6110 6303 6741 6876 7509 7510 7592
TRYPANOSOMA BRUCEI BRUCEI 471 2954 6139 6798
TRYPANOSOMA BRUCEI GAMBIENSE 2795
TRYPANOSOMA BRUCEI RHODESIENSE 2954 5359
TRYPANOSOMA BUFOPHLEBOTOMI 130
TRYPANOSOMA CATOSTOMI 129
TRYPANOSOMA CONGOLENSE 363 413 717 1004 1071 1556 1577 2286 3612 3709 3710 3711 4408 4973 4976 5055 5600 5601 5855 6741 6781 6799 7510
TRYPANOSOMA CONORHINI 3924
TRYPANOSOMA CRICETI 7129
TRYPANOSOMA CRUZI 50 106 216 453 676 717 988 992 1070 1072 1073 1254 1286 1557 1578 1661 1733 1734 1735 1736 1888 2004 2135 2197 2255 2286 2666 2736 2862 3303 3981 4467 4510 4795 4796 5051 5639 5675 5856 5937 5957 6304 6621 6705 7086 7317 7423 7511 7593
TRYPANOSOMA DUTTONI 472 1006 7129
TRYPANOSOMA EQUINUM 717 2286 4964
TRYPANOSOMA EQUIPERDUM 362 421 717 2212 2285 2286 5676 5856
TRYPANOSOMA EVANSI 717 1005 2094 2286 2864 3303 3712 4306 4964 5051 5052 5602 5677 6305 6681 6877
TRYPANOSOMA EVOTOMYS 7129
TRYPANOSOMA GAMBIENSE 473 676 1006 1074 1254 1706 1707 2286 2818 2862 2863 2865 3303 4468 4511 4795 4796 4977 5029 5050 5053 5054 5382 5488 5639 5678 6426 6681 6800 6801 6807 7512
TRYPANOSOMA GASIMAGOMEDOVI 1341
TRYPANOSOMA GERRHONOTI 131
TRYPANOSOMA GROSI 7129
TRYPANOSOMA INGENS 6043
TRYPANOSOMA IOWENSIS 7129
TRYPANOSOMA LEWISI 422 717 1006 2287 3613 4512 4795 4796 4928 5410 5483 6306 7129
TRYPANOSOMA MAZAMARUM 3713
TRYPANOSOMA MEGA 5360
TRYPANOSOMA MICROTI 7129
TRYPANOSOMA MUSCULI 6688 7129
TRYPANOSOMA NABIASI 7129
TRYPANOSOMA NEOTOMAE 7129
TRYPANOSOMA OTOSPERMOPHILI 7129
TRYPANOSOMA RABINOWITSCHAE 7129
TRYPANOSOMA RANGELI 986
TRYPANOSOMA RHODESIENSE 216 363 676 949 1579 1645 1646 1647 1660 1706 1732 1738 2213 2286 2796 2851 2863 2953 4973 5050 5639 6306 7509
TRYPANOSOMA ROTATORIUM 2818 6856
TRYPANOSOMA SCUHLMANI 1341
TRYPANOSOMA SIMIAE 674 3709
TRYPANOSOMA SPERMOPHILI 6856
TRYPANOSOMA THEILERI 158 1737 2818 3713 3714 4964 5600
TRYPANOSOMA THEREZIENI 2818
TRYPANOSOMA VESPERTILIONIS 1075
TRYPANOSOMA VIVAX 363 364 413 475 1004 1556 3709 4513 4931 4964 5055 5600 7510
TRYPANOSOMA ZAPI 7129
TUBARIA CONSPERSA 5758
TUBER AESTIVUM 3154
TUBER MELANOSPORUM 3154
TUBER RUFUM 3154
TUBERCULARIA 1799
TUBERCULINA MAXIMA 523
TUBERCULODINIUM VANCAMPOAE 2441
TUBIFERA FERRUGINOSA 13
TUBURCINIA 1879
TULOSTOMA 1870
TULOSTOMA ALBICANS 5923
TULOSTOMA BARLAE 5923
TULOSTOMA JOURDANII 5923
TULOSTOMA KOTLABAE 5923
TULOSTOMA MORAVECII 5923
TURNERELLA PENNYI 6534 7107
TUSSILAGO FARTARA 6368
TYMPANELLA 4029
TYPHULA 5756 5792 5896
TYPHULA IDAHOENSIS 3469
TYROMYCES FISSILIS 1238
TYROPHAGUS 542

UDINULA VULGARIS 4725
ULOCLADIUM CHLAMYDOSPORUM SP.N. 7083
ULOCLADIUM CONSORTIALE 6985
ULOTHRICHINAE 2531
ULOTHRIX 2418 2480 3203 3824 4670 5170 6397
ULOTHRIX FIMBRIATA 7049
ULOTHRIX PSEUDOFLACCA 610
ULOTHRIX TENERRIMA 6652
ULOTHRIX ZONATA 3267 4726
ULVA 3268 7007 7266
ULVA COSTATA 560
ULVA FASIATA 3446
ULVA LACTUCA 373 3401 5397 6432 7019
ULVA MUTABILIS 1908 6756
ULVA MUTABLIS 4371
ULVA RIGIDA 2084
ULVELLA 3869
ULVELLA PAPILLOSA 5186
UMBELLOSPHAERA IRREGULARIS 1940
UMBILICARIA CAROLINIANA 5930
UMBILICARIA MAMMULATA 4747
UMBILICARIA PUSTULATA 186
UMBILICARIA VELLEA 4265
UNCINULA NECATOR 5196
UNDARIA PINNATIFIDA F.DISTANS 4155
UNDELLA ATTENUATA 3194
URCEOLARIA VIRIDIS 70
UREDINALES 1320 3022 3266 3794 5133 5736 6353 6940 6941
UREDO 7638

UREDO MARISCI SP,N, 7185
URNULA 2511
UROCYSTIS AGROPYII 4227
UROCYSTIS AGROPYRI 1125 3020 3021 5089
UROCYSTIS MAGICA 506
UROCYSTIS TRITICI 1122
UROGLENA 2527
UROHENDERSONIA INDICA 2469
UROHENDERSONIA PLATENSIS 2469
UROHENDERSONIA STIPAE 2469
UROMYCES 7638
UROMYCES APPENDICULATUS 2346
UROMYCES COMMELINAE 7185
UROMYCES DECORATUS 7185
UROMYCES DIANTHI 2781 3222
UROMYCES ERYTHRONII 585
UROMYCES EXCAVATUS 585
UROMYCES FABAE 585 910 1761 3422
UROMYCES FUSISPORUS 1875
UROMYCES GUERKEANUS 585
UROMYCES MUSAE 6915
UROMYCES PHASEOLI 2674 2675 3015 4706 5405 6368
UROMYCES RUMICIS 1772
UROMYCES TRIFOLII 1113
UROMYCLADIUM FUSISPORUM 1875
URONEMA 3824 6397
URONEMA MARINUM 6420
URONYCHIA 64
UROSPORA 5397
UROSPORA MIRABILIS 6490
UROSTYLA 6114
UROSTYLA CRISTATA 7140
UROSTYLA GRANDIS 7140
USNEA ANGULATA 599
USNEA ASAHINAI 599
USNEA JAPONICA 599
USNEA STRAMINEA 599
USNEA SUBFLORIDANA 1823
USNEA SULCATA 599
USNEA TORQUESCENS 599
USTILAGINACEAE 5738
USTILAGINALES 1320 3266 4563 5133
USTILAGO 1879 5738
USTILAGO AVENAE 3016
USTILAGO BULLATA 1125
USTILAGO CYPERI-LUCIDI SP,N, 5840
USTILAGO GRANDIS 7644
USTILAGO HORDEI 1878 2615 6463
USTILAGO MAYDIS 320 1124 1441 2205 2343 2344 4227 4293 4561 5505 6131 6210 7237 7645
USTILAGO NUDA 332 1125 2345 3016 3017 3018 3019 5736 5737 6131 6368 7005
USTILAGO NUDA VAR,TRITICI 1122
USTILAGO SCITAMINEA 3973
USTILAGO SPHAEROGENA 142 746 2616 4139 4832 6425 7340
USTILAGO STRIIFORMIS 1125 1126 3021 5089 5090 6942 7646
USTILAGO STRIIFORMIS VAR POAE 3020
USTILAGO STRIIFORMIS VAR,AGROSTIDIS 7647
USTILAGO TRITICI 2345 4562 6943
USTILAGO VIOLACEA 1127 1571 2180 6211 6507 6771 7237

VACUOLARIA VIRESCENS 3288 4837 6475
VACUOLARIA VIRIDIS 3288
VAHLKAMPFIA LOBOSPINOSA 4051
VALLISNERIA SPIRALIS 118 7431
VALONIA 3248
VALONIA VENTRICOSA 1207
VALSA RIBESIA 1947
VALSARIA RUBRICOSA 6076
VARICOSPORINA 3280
VASCELLUM PRATENSE 7183
VAUCHERIA 6397 6491
VAUCHERIA AVERSA 5269
VAUCHERIA GEMINATA 5269
VAUCHERIA LONGICAULIS 5269
VAUCHERIA POLYSPERMA 5269
VAUCHERIA SCHLEICHERI 5269
VAUCHERIA SESSILIS 3247 4837 7046
VAUCHERIA SESSILIS F,GENUINA 5269
VAUCHERIA SESSILIS F,REPENS 5269
VAUCHERIA SPHAEROSPORA 7046
VAUCHERIA TERRESTRIS 5269
VAUCHERIA UNCINATA 5269
VAUCHERIA WORONINIANA 3863
VENTURIA CARPOPHILA 1755
VENTURIA INAEQUALIS 2330 2331 4886 5078 5728 5791 6368
VERNEUILINIDAE 4048
VERTICICLADIELLA WAGENERII 1149
VERTICILLIUM 121 524 1544 1755 2033 3809 4919 5599 6365 6367 6979 7666
VERTICILLIUM AGARICINUM 1528 5253
VERTICILLIUM ALBO-ATRUM 214 359 521 525 1117 1138 1150 1755 2023 2358 2380 2381 2398 2760 2761 3065 3066 3094 3178 3778 4422 4536 4580 4582 4600 5130 5396 6610 6629 6959 6986 6987 7675 7676 7677
VERTICILLIUM CELLULOSAE 7017
VERTICILLIUM DAHLIAE 214 359 525 1369 1784 3067 3068 3069 3228 3792 4536 4601 4602 4758 5131 6702 6959 7339
VERTICILLIUM HEMILEIAE 1235
VERTICILLIUM LATERITIUM 302 1369 7706
VERTICILLIUM MALTHAUSEI 526 5779
VERTICILLIUM NIGRESCENS 214 2502 4422 5132
VERTICILLIUM NUBILUM 2502
VERTICILLIUM TERRESTRE 3389 7684
VERTICILLIUM TRICORPUS 214 359
VESTERGRENOPSIS 5930
VESTIGIUM FELICIS SP,N, 6470
VIDALIA FIMBRIATA 3527
VINCULUM INDICUM 1880
VISCHERIA PUNCTATA 5 7041
VISCHERIA STELLATA 5 7041
VITREOSCILLA 7026
VIZELLA BANKSIAE SP,N, 1951
VIZELLA OLEARIAE SP,N, 1951
VOLVARIELLA DIPLASIA 4793
VOLVOCINA 2531
VOLVOX 3292
VOLVOX AUREUS 298 1265 5943
VOLVOX AUREUS M5 2693
VOLVOX CARTERI 2742 3445
VORTICELLA 3948 4057 5176
VORTICELLA CONVALLARIA 3191 4710
VORTICELLA MICROSTOMA 3189 4710 6420 7712
VOUAUXIELLA LICHENICOLA 2503

WARCUPIA TERRESTRIS 5838
WARRENIA COMMOSA 575
WEEKSIA FRYEANA 614
WICKERHAMIA FLUORESCENS 3323
WILLEELLA ORDINATA 7153
WOLOSZYNSKIA TENUISSIMUM 1843
WOLOSZYNSKIA TYLOTA 3955
WRANGELIA ARGUS 4373

XANTHOMONAS ORYZAE 6988
XANTHOMONAS TRANSLUSCENCE 6988
XANTHOPHYTA 3844
XANTHORIA 669
XANTHORIA PARIETINA 1252
XANTHORIACEAE 601
XEROCOMUS SCABRIPES 31
XEROMPHALINA PUMANQUENSIS 7183
XYLARIA 530 5896
XYLARIA APICULATA 3273

# Abbreviations

| | |
|---|---|
| A | adenine |
| A | angstrom |
| ACh | acetylcholine |
| ACTH | adrenocorticotropic hormone |
| ADP | adenosine diphosphate |
| AMP | adenosine monophosphate |
| Anopl | Anoplura |
| AP | arginine phosphate |
| approx | approximately |
| Arach. | Arachnida |
| Aran | Araneae |
| at wt | atomic weight |
| ATP | adenosine triphosphate |
| ATPase | adenosine triphosphatase |
| Aug | August |
| BOD | biochemical oxygen demand |
| b i d | bis in die (twice daily) |
| BHC | benzene hexachloride |
| Blatt | Blattodea |
| c | curie |
| C | cytosine |
| ca | circa |
| CA | corpora allata, corpus allatum |
| CC | corpora cardiaca |
| CD | circular dichroism |
| CD$_{50}$ | median curative dose |
| CDP | cytidine diphosphate |
| CF | complement fixation |
| CFU | colony forming unit |
| Chil. | Chilopoda |
| CM-cellulose | carboxymethyl cellulose |
| CMP | cytidine monophosphate |
| CNS | central nervous system |
| CoA | co-enzyme A |
| CoASH | reduced co-enzyme A |
| COD | chemical oxygen demand |
| coeff | coefficient |
| Col | Coleoptera |
| Collem | Collembola |
| comb n | new combination |
| compd | compound |
| conc | concentration |
| CoQ | co-enzyme Q (ubiquinone) |
| CPE | cytopathic effect |
| c/s | cycles per second |
| CSF | cerebrospinal fluid |
| CT | calcitonin |
| CTP | cytidine triphosphate |
| cv | cultivar |
| cyt | cytochrome |
| D | decimal reduction time |
| DDA | dichloro-diphenyl-acetic acid |
| DDD | dichloro-diphenyl-dichloroethylene |
| DDT | dichloro-diphenyl-trichloroethane |
| DEAE-cellulose | diethylaminoethyl cellulose |
| Dec | December |
| Derm. | Dermaptera |
| diam | diameter |
| Dipl. | Diplura |
| Diplop. | Diplopoda |
| Dipt. | Diptera |
| DNA | deoxyribonucleic acid |
| DNase | deoxyribonuclease |
| DNP | deoxyribonucleoprotein |
| dopa | dihydroxyphenylalanine |
| ECTEOLA-cellulose | epichlorohydrin-triethanolamine and cellulose |
| ED$_{50}$ | median effective dose |
| EDTA | ethylenediamine-tetraacetic acid |
| Emb | Embioptera |
| EMP | Embden-Meyerhof-Parnas |
| EMS | ethyl methane sulphonate |
| ENT | ear, nose and throat |
| Ephem. | Ephemeroptera |
| ER | endoplasmic reticulum |
| ESR | electron spin resonance |
| | forma |
| FA | fatty acid(s) |
| FAD | flavine adenine dinucleotide |
| am.n. | new family |
| Feb | February |
| P(H$_2$) | (reduced) flavoprotein |
| .sp. | forma specialis |
| t | foot, feet |
| t c | foot-candle(s) |
| tm | fathom(s) |
| | gram(s) |
| G | guanine |
| ABA | gamma-aminobutyric acid |
| all | gallon(s) |

| | |
|---|---|
| GDP | guanosine diphosphate |
| gen | genus |
| gen.n | new genus |
| GLC | gas liquid chromatography |
| GMP | guanosine monophosphate |
| G6PD | glucose-6-phosphate dehydrogenase |
| GTP | guanosine triphosphate |
| HA | haemagglutination |
| Hb | haemoglobin |
| Hem | Hemiptera |
| Het | Heteroptera |
| HI | haemagglutination inhibition |
| Hom | Homoptera |
| hr | hour(s) |
| HS | horizontal section |
| HT | hydroxytryptamine |
| Hym | Hymenoptera |
| Hz | hertz |
| i a | intraarterial, -ly |
| IAA | indole acetic acid |
| i c | intracerebral, -ly |
| i d | intradermal, -ly |
| ID$_{50}$ | median infective dose |
| IDP | inosine diphosphate |
| IgG, M, etc | immunoglobulin G, M, etc |
| i.m. | intramuscular, -ly |
| IMP | inosine monophosphate |
| in | inch, inches |
| i n | intranasal, -ly |
| INH | isoniazid |
| i p | intraperitoneal, -ly |
| IR | infrared |
| Isopt | Isoptera |
| ITP | inosine triphosphate |
| i v | intravenous, -ly |
| Jan | January |
| JH | juvenile hormone |
| [illegible] | kilo |
| kc/s | kilocycles per second |
| Km | Michaelis constant |
| lb | pound(s) |
| L/D | light/dark regime |
| LD$_{50}$ | median lethal dose |
| LDH | lactate dehydrogenase |
| Lep | Lepidoptera |
| log | logarithm |
| LS | longitudinal section |
| m | milli or meter(s) |
| M | molar |
| µ | micro, micron(s) |
| Mall | Mallophaga |
| Mant | Mantodea |
| MBC | minimum bactericidal concentration |
| Mec | Mecoptera |
| Megal | Megaloptera |
| mg | milligram(s) |
| MIC | minimum inhibitory concentration |
| min | minute(s) |
| mol wt | molecular weight |
| mp | melting point |
| MPN | most probable number |
| mRNA | messenger RNA |
| Myriap | Myriapoda |
| n | nano |
| NAD(H$_2$) | (reduced) nicotinamide adenine dinucleotide |
| NADP(H$_2$) | (reduced) nicotinamide adenine dinucleotide phosphate |
| Neur | Neuroptera |
| NMR | nuclear magnetic resonance |
| nom n | new name |
| Nov | November |
| NTP | normal temperature & pressure |
| Oct | October |
| OD | optical density |
| Odon | Odonata |
| Onych. | Onychophora |
| OP | osmotic pressure |
| Opil. | Opiliones |
| ORD | optical rotary dispersion |
| Orth | Orthoptera |
| oz | ounce(s) |
| PAS | para-aminosalicylic acid |
| PBS | phosphate buffered saline |
| PDA | potato dextrose agar |
| PFU | plaque forming unit |
| 6PGD | 6-phosphogluconate dehydrogenase |
| PGM | phosphoglucomutase |
| PHA | phytohaemagglutinin |
| Phasm | Phasmatodea |
| PkFU | pock forming unit |
| Plec. | Plecoptera |

| | |
|---|---|
| PMR | proton magnetic resonance |
| p o | per os |
| PP | pyrophosphate |
| PPLO | pleuropneumonia-like organism |
| ppm | parts per million |
| Prot | Protura |
| Pseudoscorp | Pseudoscorpiones |
| p s i | pounds per square inch |
| Psoc | Psocoptera |
| PTC | phenylthiocarbamide |
| PTE | parathyroid extract |
| PTH | parathyroid hormone |
| q i d | quarter in die (4 times a day) |
| quat | quaternary |
| rad | radiation unit (100 ergs/g) |
| RBC | red blood cell |
| Rf | relative flow rate |
| RH | relative humidity |
| RNA | ribonucleic acid |
| RNase | ribonuclease |
| RNP | ribonucleoprotein |
| rpm | revolutions per minute |
| RQ | respiratory quotient |
| rRNA | ribosomal RNA |
| S | Svedberg unit |
| s c | subcutaneous, -ly |
| Scorp | Scorpiones |
| SDS | sodium dodecyl sulphate |
| sec | second(s) |
| Sept | September |
| SG | Specific gravity |
| Siphon | Siphonaptera |
| sp(p) | species |
| sp n | new species |
| s str | sensu stricto |
| str | strain |
| Streps. | Strepsiptera |
| subfam n | new subfamily |
| subgen | subgenus |
| subgen.n | new subgenus |
| subsp(p) | subspecies |
| subsp.n. | new subspecies |
| SV40 | simian virus 40 |
| syn n. | new synonym |
| T | thymine |
| TCA | trichloroacetic acid |
| TCD$_{50}$ | median tissue culture infective dose |
| TCT | thyrocalcitonin |
| TEM | triethylene melamine |
| temp | temperature |
| tert | tertiary |
| Thysanopt | Thysanoptera |
| t i.d | ter in die (three times a day) |
| TLC | thin-layer chromatography |
| TMV | tobacco mosaic virus |
| trib n | new tribe |
| Trich | Trichoptera |
| Tris | 2-amino-2-hydroxymethylpropane-1,3-diol |
| tRNA | transfer RNA |
| TS | transverse section |
| U | uracil |
| UDP | uridine diphosphate |
| UDPG | uridine diphosphate glucose |
| UDPNAG | uridine diphosphate N-acetylglucosamine |
| UMP | uridine monophosphate |
| UTP | uridine triphosphate |
| UV | ultraviolet |
| var | variety |
| var n | new variety |
| vol | volume |
| VS | vertical section |
| v/v | volume per volume |
| WBC | white blood cell |
| wk | week, weeks |
| wt | weight |
| w/v | weight per volume |
| w/w | weight per weight |
| Xiph. | Xiphosura |
| yd | yard(s) |
| yr | year(s) |
| Zor. | Zoraptera |
| % | per cent |
| ‰ | per thousand |

Amino acids are only abbreviated in the description of their sequence in a peptide or protein; the I U.P A C. abbreviations are used Positive inorganic ions are written as $Mn^{2+}$, $Na^{+}$, negative ions as $Cl^{-}$, $SO_4^{2-}$ Elements are denoted by symbols

## Language abbreviations

| text | summaries | |
|---|---|---|
| Af | af | Afrikaans |
| Ar | ar | Arabic |
| Be | be | Belorussian |
| Bg | bg | Bulgarian |
| Ch | ch | Chinese |
| Cs | cs | Czech |
| Da | da | Danish |
| Nl | nl | Dutch |
| En | en | English |
| Ee | ee | Estonian |
| Fi | fi | Finnish |
| Fl | fl | Flemish |
| Fr | fr | French |
| De | de | German |
| Gr | gr | Greek |
| He | he | Hebrew |
| Hu | hu | Hungarian |
| It | it | Italian |
| Ja | ja | Japanese |
| Ko | ko | Korean |
| Lv | lv | Latvian |
| Li | li | Lithuanian |
| Ma | ma | Macedonian |
| No | no | Norwegian |
| Pl | pl | Polish |
| Pt | pt | Portuguese |
| Ro | ro | Romanian |
| Ru | ru | Russian |
| Sh | sh | Serbo-croat |
| Sk | sk | Slovak |
| Sn | sn | Slovenian |
| Es | es | Spanish |
| Sv | sv | Swedish |
| Tr | tr | Turkish |
| Uk | uk | Ukrainian |

Printed by the
Cotswold Press Ltd.
Oxford, England

# Microbiology Abstracts

Section C

Algology, mycology & protozoology

3 8198 313 884 528
THE UNIVERSITY OF ILLINOIS AT CHICAGO

BOUND BY
HWM

THIS BOOK IS FOR USE
ONLY IN THE LIBRARY
IT DOES NOT CIRCULATE